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Diploma in General Science Checklist

Diploma in General Science

Progress Indicator

Name: Yann GEFROTIN
 Progress: **100.00%** 0% 100%
 Total Time: **06:04:24**
 Points: **10**
 Last Access: **2011-09-24 16:07:31**
 Certified: **Yes (Claim your Certificate)**

The table below shows your progress in details, it also show you what topic/modules you failed or did not study. Click on the module link where you want to complete or re-attempt.

Detailed Course Completion Report

Diploma-in-General-Science: [Organisms, Nutrients and Digestion](#)

First access: Sunday, 10 July 2011, 09:29 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:55 AM (76 days 7 h)

Report:

- Biology
 - ■ Biology
 - ■ The characteristics of living things
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - The characteristics of living things continued
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
 - All living things are made of cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:40
 - Instruments for viewing organisms
 - ■ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 - Instruments used to view organisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - Hooke's microscope
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - Parts of a light microscope
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - Magnification
 - ■ Magnification introduction

- **Status:** completed
 - **Total Time:** 00:00:01
 - ✓ How to calculate magnification
 - **Status:** completed
 - **Total Time:** 00:00:02
 - ✓ Field of view
 - **Status:** completed
 - **Total Time:** 00:00:01
 - ✓ Magnifying your field of view
 - **Status:** completed
 - **Total Time:** 00:00:29
 - ✓ Calculating the diameter of the field of view
 - **Status:** completed
 - **Total Time:** 00:00:00
 - ✓ Determining the size of a magnified object
 - **Status:** completed
 - **Total Time:** 00:00:00
 - ✓ How large are cells?
 - **Status:** completed
 - **Total Time:** 00:00:00
 - Animal cells
 - ✓ A typical animal cell
 - **Status:** completed
 - **Total Time:** 00:00:06
 - ✓ The nucleus
 - **Status:** completed
 - **Total Time:** 00:00:03
 - ✓ Cell membrane
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ Cytoplasm
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Mitochondria
 - **Status:** completed
 - **Total Time:** 00:00:13
 - ✓ Structure and function of animal cells
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Summary - animal cells
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Plant cells
 - ✓ A typical plant cell is different to an animal cell
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ Cell wall
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Chloroplasts in the cytoplasm
 - **Status:** completed
 - **Total Time:** 00:00:05
 - ✓ Cytoplasmic streaming
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ Vacuoles
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Summary - plant cells
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Cell basics
 - ✓ Staining cells

- **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Sectioning
- **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Unicellular organisms
- **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Cilia and flagella
- **Status:** completed
 - **Total Time:** 00:00:19
 - ✓ Unicellular organisms have to eat too
- **Status:** completed
 - **Total Time:** 00:00:21
 - ✓ The importance of surface area and volume
- **Status:** completed
 - **Total Time:** 00:00:20
 - ✓ The surface area to volume ratio
- **Status:** completed
 - **Total Time:** 00:00:22
 - ✓ Multicellular organisms
- **Status:** completed
 - **Total Time:** 00:00:22
 - ✓ Viruses
- **Status:** completed
 - **Total Time:** 00:00:21
 - ✓ Summary - cell basics 1
- **Status:** completed
 - **Total Time:** 00:00:20
 - ✓ Summary - cell basics 2
- **Status:** completed
 - **Total Time:** 00:00:13
- Further characteristics of living things
 - ✓ Growth
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ Movement
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Reacting to the environment
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Respiring
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Reproduction
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Reproduction in bacteria
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Sexual reproduction
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Excretion
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Nutrition
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Do viruses live?
 - **Status:** completed
 - **Total Time:** 00:00:14
 - How organisms are classified

- ■ ✓ How organisms are classified
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Dichotomous keys
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Alternative presentation of dichotomous keys
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Choosing characteristics for dichotomous keys
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ The species concept
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 - ✓ Donkeys and horses - are they different species?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 - ✓ Common names
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 - ✓ Carl Linnaeus invents binomial names
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Binomial names
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 - ✓ Hierarchy of classification
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Remembering the hierarchy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- The kingdoms of living things
 - ✓ Introduction to the five kingdoms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Characteristics of kingdom prokaryotae
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ✓ Characteristics of kingdom Protista
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Characteristics of kingdom Fungi
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Kingdom Plantae
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ Characteristics of kingdom Plantae
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Kingdom Animalia
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Characteristics of kingdom Animalia
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Characteristics of the five kingdoms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ A dichotomous key for the kingdoms
 - ■ **Status:** completed

- **Total Time:** 00:00:04
- ✓ Summary - classification
- **Status:** completed
- **Total Time:** 00:00:04
- Food and water
- ✓ Food and water
- **Status:** completed
- **Total Time:** 00:00:19
- ✓ Types of nutrients
- **Status:** completed
- **Total Time:** 00:00:18
- ✓ Water
- **Status:** completed
- **Total Time:** 00:00:16
- Carbohydrates
- ✓ Carbohydrates
- **Status:** completed
- **Total Time:** 00:00:01
- ✓ Mono, di and polysaccharides
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ Monosaccharides
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ Disaccharides
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ Polysaccharides
- **Status:** completed
- **Total Time:** 00:00:56
- ✓ Dietary fibre
- **Status:** completed
- **Total Time:** 00:00:54
- Lipids
- ✓ Lipids
- **Status:** completed
- **Total Time:** 00:00:51
- ✓ Energy, insulation and lipids
- **Status:** completed
- **Total Time:** 00:00:50
- ✓ Structure of lipids
- **Status:** completed
- **Total Time:** 00:00:00
- Proteins
- ✓ Proteins
- **Status:** completed
- **Total Time:** 00:00:49
- ✓ Structure of proteins
- **Status:** completed
- **Total Time:** 00:00:50
- Vitamins and minerals
- ✓ Vitamins and minerals
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ The role of vitamins
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ Minerals
- **Status:** completed
- **Total Time:** 00:00:00
- ✓ The role of minerals
- **Status:** completed

- ■ ✓ Activity 1, definitions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Activity 2, looking at cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Activity 3, animal cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Activity 4, plant cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Activity 5, cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Activity 6, the characteristics of living things
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Activity 7, classification
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
- ✓ Activity 8, food
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Activity 9, the digestive system
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ Glossary
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:23

Diploma-in-General-Science: **Cell theory**

First access: Sunday, 10 July 2011, 09:28 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:28 AM (76 days 7 h)

Report:

- Cell theory
 - ■ ✓ How cell theory relates to survival
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
 - ✓ Survival Mechanisms Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00

Diploma-in-General-Science: **Main activities and principles of cells**

First access: Sunday, 10 July 2011, 09:28 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:28 AM (76 days 7 h)

Report:

- Main activities and principals of cells
 - ■ ✓ Main activities of cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Principles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Cell specialisation and differentiation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

- ✓ Structure and dimensions of cells
 - **Status:** completed
 - **Total Time:** 00:00:14
- ✓ Levels of organisation
 - **Status:** completed
 - **Total Time:** 00:00:13
- ✓ Chemical composition of cells and overview
 - **Status:** completed
 - **Total Time:** 00:00:13

📖 Diploma-in-General-Science: **Types of Cells**

First access: Sunday, 10 July 2011, 09:29 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:29 AM (76 days 7 h)

Report:

- Types of Cells
 - ■ ✓ Types of Cells
 - **Status:** completed
 - **Total Time:** 00:00:19
 - ✓ Generalised Eukaryotic Cells: main structures, their features and functions
 - **Status:** completed
 - **Total Time:** 00:00:19
 - ✓ Eukaryotic Cells – Continued
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Generalised Prokaryotic Cell
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Generalised Plant and Animal Eukaryotic Cells
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Living Things – The Five Kingdoms
 - **Status:** completed
 - **Total Time:** 00:00:16

📖 Diploma-in-General-Science: **Cellular Respiration**

First access: Sunday, 10 July 2011, 09:55 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:55 AM (76 days 7 h)

Report:

- Cellular Respiration
 - ■ ✓ Cellular Respiration - Introduction
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Some use of energy in cells
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Aerobic Respiration
 - **Status:** completed
 - **Total Time:** 00:00:05
 - ✓ Anaerobic Respiration: Fermentation
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ The ADP/ATP system
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Advantages of the ADP/ATP System
 - **Status:** completed
 - **Total Time:** 00:00:06
 - ✓ Anaerobic Respiration: Lactic acid production






- ■ **Status:** completed
- ■ **Total Time:** 00:00:04

Diploma-in-General-Science: Molecules found in cells

First access: Sunday, 10 July 2011, 09:56 AM (76 days 7 h)

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Report:




- Vitamins
- ■  Vitamins
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 -  Nucleic acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Lipids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Proteins
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Organic compounds
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 -  Carbohydrates
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Enzymes

First access: Sunday, 10 July 2011, 09:56 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:56 AM (76 days 7 h)

Report:




- Enzymes
- ■  Enzymes - Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 -  Enzyme information
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 -  Factors Affecting Enzyme Activity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04

Diploma-in-General-Science: Inorganic material

First access: Sunday, 10 July 2011, 09:56 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:56 AM (76 days 7 h)

Report:

- Inorganic material
- ■  Inorganic material: introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 -  Carbon dioxide
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 -  Minerals




- ■ **Status:** completed
- ■ **Total Time:** 00:00:05

Diploma-in-General-Science: Passage Through Membranes

First access: Sunday, 10 July 2011, 09:57 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:57 AM (76 days 7 h)

Report:









- Passage Through Membranes
 - ■  Passage Through Membranes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Structure and Function of Membranes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 -  The Rate of Movement of Substances Across Membranes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-General-Science: Life Cycle

First access: Sunday, 10 July 2011, 09:57 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:57 AM (76 days 7 h)

Report:


- Life Cycle
 - ■  Life Cycle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 -  Reproductive adaptations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 -  Behavioural Adaptations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Functional and Physiological
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Feeding
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Attachment
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Adaptations and Structural Features
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Adaptations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

Diploma-in-General-Science: Basal Metabolic Rate

First access: Sunday, 10 July 2011, 09:58 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 09:58 AM (76 days 7 h)

Report:

- Basal Metabolic Rate
 - ■  Basal Metabolic Rate (BMR)

- ■ **Status:** completed
- ■ **Total Time:** 00:00:15
- ✓ Basal Metabolic Rate (BMR)
- ■ **Status:** completed
- ■ **Total Time:** 00:00:04

📖 Diploma-in-General-Science: **Regulation of Body Temperature in Animals**

First access: Sunday, 10 July 2011, 09:58 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:00 AM (76 days 7 h)

Report:

- Regulation of Body Temperature in Animals
 - ■ ✓ Regulation of Body Temperature in Animals (Thermoregulation)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Physical Exercise
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Freshwater Organisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Intertidal and Estuarine Organisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Marine Organisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Osmoregulatory Mechanisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Water Loss From Terrestrial Organisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Contribution of Body Systems to Homeostasis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Regulatory Mechanisms in Animals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:45
 - ✓ Physiological (homeostatic) Mechanisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Behaviour
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ✓ Countercurrent Heat Exchange Systems
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11

📖 Diploma-in-General-Science: **Responses to Environmental Effects**

First access: Sunday, 10 July 2011, 10:18 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:18 AM (76 days 7 h)

Report:

- Responses to Environmental Effects
 - ■ ✓ Homeostasis – Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Failure of Homeostasis

- ■ **Status:** completed
- ■ **Total Time:** 00:00:10
- ✓ Surviving Under Changing Conditions – Introduction
- ■ **Status:** completed
- ■ **Total Time:** 00:00:09
- ✓ Responses to Environmental Effects
- ■ **Status:** completed
- ■ **Total Time:** 00:00:08

📁 Diploma-in-General-Science: **Surface Area to Volume Ratio**

First access: Sunday, 10 July 2011, 10:18 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:18 AM (76 days 7 h)

Report:

- Surface Area to Volume Ratio
- ■ ✓ Surface Area to Volume Ratio
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00

📁 Diploma-in-General-Science: **Homeostasis - Feedback Mechanisms**

First access: Sunday, 10 July 2011, 10:19 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:19 AM (76 days 7 h)

Report:

- Homeostasis - Feedback Mechanisms
- ■ ✓ Homeostasis - Feedback Mechanisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Positive Feedback
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Negative Feedback
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

📁 Diploma-in-General-Science: **Photosynthesis**

First access: Sunday, 10 July 2011, 10:19 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:19 AM (76 days 7 h)

Report:

- Photosynthesis
- ■ ✓ Photosynthesis: What Happens to the Glucose Formed?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ✓ Phases of photosynthesis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ✓ Light phase (Photolysis)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Photosynthesis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ Photosynthesis: Simplified Summary Equation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12

Diploma-in-General-Science: **Disease**

First access: Sunday, 10 July 2011, 10:20 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:20 AM (76 days 7 h)

Report:

- Disease
- Disease
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Pathogenic Organisms
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Vectors
 - **Status:** completed
 - **Total Time:** 00:00:16
 - Arthropods
 - **Status:** completed
 - **Total Time:** 00:00:19
 - Worms
 - **Status:** completed
 - **Total Time:** 00:00:20
 - Fungi
 - **Status:** completed
 - **Total Time:** 00:00:20
 - Other Pathogenic Organisms
 - **Status:** completed
 - **Total Time:** 00:00:20
 - Living as a Parasite
 - **Status:** completed
 - **Total Time:** 00:00:19
 - Surviving Challenges From Organisms that Cause Disease
 - **Status:** completed
 - **Total Time:** 00:00:19

Diploma-in-General-Science: **Transmission of Pathogens and Parasites in Animals and Plants**

First access: Sunday, 10 July 2011, 10:21 AM (76 days 7 h)

Last access: Sunday, 10 July 2011, 10:22 AM (76 days 7 h)

Report:

- Transmission of Pathogens and Parasites in Animals and Plants
- Transmission of Pathogens and Parasites in Animals and Plants
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Control
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Factors Affecting Infection
 - **Status:** completed
 - **Total Time:** 00:00:12
 - Treatment
 - **Status:** completed
 - **Total Time:** 00:00:19
 - Defence Mechanisms of Plants
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Defence Mechanisms of Animals
 - **Status:** completed
 - **Total Time:** 00:00:16
 - Lines of Defence
 - **Status:** completed

- **Total Time:** 00:00:15
- ✓ Fever
- **Status:** completed
- **Total Time:** 00:00:14
- ✓ Human Lymphatic System
- **Status:** completed
- **Total Time:** 00:00:14
- ✓ Primary and Secondary Response
- **Status:** completed
- **Total Time:** 00:00:10
- ✓ Acquired Immunity
- **Status:** completed
- **Total Time:** 00:00:12
- ✓ Antibodies
- **Status:** completed
- **Total Time:** 00:00:12
- ✓ Antigen-Antibody Reaction
- **Status:** completed
- **Total Time:** 00:00:12
- ✓ The Immune System
- **Status:** completed
- **Total Time:** 00:00:12
- ✓ Allergic Reactions
- **Status:** completed
- **Total Time:** 00:00:11
- ✓ Auto-Immune Diseases, Rejection of Transplants
- **Status:** completed
- **Total Time:** 00:00:12
- ✓ Inflammation
- **Status:** completed
- **Total Time:** 00:00:12

📖 Diploma-in-General-Science: **Plant Hormones and Their Actions**

First access: Sunday, 10 July 2011, 10:22 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:23 AM (76 days 6 h)

Report:

- Plant Hormones and Their Actions
- ■ ✓ Regulatory Mechanisms in Plants – Introduction
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Plant Hormones and their Actions
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ A Balancing Act
 - **Status:** completed
 - **Total Time:** 00:00:18
 - ✓ Fungi
 - **Status:** completed
 - **Total Time:** 00:00:19
 - ✓ Hormonal Control of Plant Responses
 - **Status:** completed
 - **Total Time:** 00:00:20
 - ✓ Photoperiodism
 - **Status:** completed
 - **Total Time:** 00:00:22
 - ✓ Vernalisation
 - **Status:** completed
 - **Total Time:** 00:00:21
 - ✓ Dormancy
 - **Status:** completed
 - **Total Time:** 00:00:18

- ✓ Life Cycles, Rhythms and the Environment
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
- ✓ Hydrophytic Plants
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
- ✓ Adaptations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
- ✓ Guard cell activity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
- ✓ Transpiration
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
- ✓ Regulation of Water Balance in Plants
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Compensation Point
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
- ✓ Regulation of Carbon Dioxide Supply in Plants
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ✓ Plant Responses to Stimuli
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
- ✓ Movement of Water
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04

Diploma-in-General-Science: Experimental Method and Design

First access: Sunday, 10 July 2011, 10:23 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:24 AM (76 days 6 h)

Report:

- Experimental Method and Design
 - ■ ✓ Experimental Method and Design
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Experimental Method and Design - Aspects to Consider
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Experimental Method and Design - Results and Conclusion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

Diploma-in-General-Science: Nervous System

First access: Sunday, 10 July 2011, 10:24 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:24 AM (76 days 6 h)

Report:

- Nervous System
 - ■ ✓ Nervous system: Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Nervous system: Organisation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Transmission of Nerve Impulses (action potential)

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
- ✓ Surviving Under Changing Conditions
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:15
- ✓ Comparison of Nerve and Hormonal Control in Vertebrates
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:15
- ✓ Neuron Structure
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
- ✓ Functioning Nervous Systems
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:15
- ✓ Nerve Pathways
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
- ✓ Structure and Function of Neuron Parts
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:16

Diploma-in-General-Science: **Natural Selection**

First access: Sunday, 10 July 2011, 10:25 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:25 AM (76 days 6 h)

Report:

- Natural Selection
 - ■ ✓ Natural Selection: Introduction
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:09
 - ✓ Variation
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:16
 - ✓ Variations due to environmental effects
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:19
 - ✓ Variation due to genetic differences
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:18
 - ✓ Genetic variation
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:18
 - ✓ Mutations
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
 - ✓ Selection pressures
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:19
 - ✓ Adaptations
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:19
 - ✓ Natural selection
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
 - ✓ Variation table
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
 - ✓ Variations
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
 - ✓ The theory of natural selection

- ■ **Status:** completed
- ■ **Total Time:** 00:00:18

Diploma-in-General-Science: Evolution

First access: Sunday, 10 July 2011, 10:26 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:26 AM (76 days 6 h)

Report:




- Evolution
 - ■  Evolution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:33
 -  Natural selection in action
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Evidence for evolution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 -  Fossils - evidence of life in the past
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 -  Fossil records
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 -  Biogeography/geographical distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 -  Differences between mammals of North America
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 -  Comparative anatomy and embryology
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 -  Biochemical comparisons
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 -  DNA hybridisation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 -  Fossilisation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 -  Fossils
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

Diploma-in-General-Science: Human evolution

First access: Sunday, 10 July 2011, 10:27 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:28 AM (76 days 6 h)

Report:

- Human evolution
 - ■  Human evolution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 -  Primates
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 -  Hominids

- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Hominids - further reading
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Origin of modern humans
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Modern humans
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
- ✓ Modern humans - Distinctive features
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Cultural evolution
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:29
- ✓ Modern humans - further reading
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:30
- ✓ Cultural evolution - further reading
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:30
- ✓ Human intervention in the process of evolution
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
- ✓ Human intervention in the process of evolution - further reading
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:34

Diploma-in-General-Science: Patterns of evolution

First access: Sunday, 10 July 2011, 10:28 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:28 AM (76 days 6 h)

Report:

- Patterns of evolution
- ■ ✓ Patterns of evolution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Convergent evolution
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Parallel evolution
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Rates of evolution
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Gradualism
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Punctuated equilibrium
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

Diploma-in-General-Science: Phylogenetic trees

First access: Sunday, 10 July 2011, 10:28 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:28 AM (76 days 6 h)

Report:

- Phylogenetic trees
 - ■ ✓ Phylogenetic trees (evolutionary trees or cladograms)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Case study: Baleen whales
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

📖 Diploma-in-General-Science: **Relative dating**

First access: Sunday, 10 July 2011, 10:29 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:29 AM (76 days 6 h)

Report:

- Relative dating
 - ■ ✓ Relative dating
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Absolute dating
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08

📖 Diploma-in-General-Science: **Biology: Meiosis**

First access: Sunday, 10 July 2011, 10:29 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:29 AM (76 days 6 h)

Report:

- Biology: Meiosis
 - ■ ✓ Meiosis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Meiosis Continued
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Significance of meiosis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Meiosis Revision
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

📖 Diploma-in-General-Science: **Mitosis**

First access: Sunday, 10 July 2011, 10:30 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:30 AM (76 days 6 h)

Report:

- Mitosis
 - ■ ✓ Mitosis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Mitosis Table
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ The Cell Cycle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Mitosis revision exercise
 - ■ **Status:** completed


■ **Total Time:** 00:00:08

 **Diploma-in-General-Science: Mitosis videos**

First access: Sunday, 10 July 2011, 10:30 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:30 AM (76 days 6 h)

Report:










- Mitosis videos
- ■  The mitosis videos
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01

 **Diploma-in-General-Science: Population genetics**

First access: Sunday, 10 July 2011, 10:30 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:31 AM (76 days 6 h)

Report:



- Population genetics
- ■  Population genetics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 -  Gene pool
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Gene drift
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 -  Migration and gene flow
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 -  Founder effect (principle)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 -  Extinction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 -  Speciation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 -  Reduction in gene flow
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 -  Reproductive isolation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

 **Diploma-in-General-Science: Pedigrees**

First access: Sunday, 10 July 2011, 10:31 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:31 AM (76 days 6 h)

Report:

- Pedigrees
- ■  Pedigrees
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 -  Pedigree analysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

- ✓ Inheritance of autosomal dominant characteristics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Inheritance of autosomal recessive characteristics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Inheritance of X-linked dominant characteristics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Inheritance of X-linked recessive characteristics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
- ✓ Analysis key
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08

📖 Diploma-in-General-Science: [Inheritance](#)

First access: Sunday, 10 July 2011, 10:31 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:31 AM (76 days 6 h)

Report:

- Inheritance
 - ■ ✓ Inheritance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Selective Breeding
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02

📖 Diploma-in-General-Science: [Genetic inheritance](#)

First access: Sunday, 10 July 2011, 10:32 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:32 AM (76 days 6 h)

Report:

- Genetic inheritance
 - ■ ✓ Genetic inheritance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Genotype and phenotype
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Identical twins
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

📖 Diploma-in-General-Science: [Mendel's work](#)

First access: Sunday, 10 July 2011, 10:32 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:32 AM (76 days 6 h)

Report:

- Mendel's work
 - ■ ✓ Mendel's work
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Mendel's first law
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Mendel's second law

- ■ **Status:** completed
- ■ **Total Time:** 00:00:09
- ✓ Mendel's second law table
- ■ **Status:** completed
- ■ **Total Time:** 00:00:08

📖 Diploma-in-General-Science: **Incomplete (partial) dominance**

First access: Sunday, 10 July 2011, 10:33 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:33 AM (76 days 6 h)

Report:

- Incomplete (partial) dominance
- ■ ✓ Incomplete (partial) dominance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Co-dominance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Multiple alleles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Lethal alleles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Polygenic inheritance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Tabby Cats
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Lethal Example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08

📖 Diploma-in-General-Science: **Inheritance at one gene locus**

First access: Sunday, 10 July 2011, 10:33 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:33 AM (76 days 6 h)

Report:

- Inheritance at one gene locus
- ■ ✓ Inheritance at one gene locus - monohybrid crosses
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Inheritance at one gene locus - monohybrid crosses continued
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

📖 Diploma-in-General-Science: **Test crosses**

First access: Sunday, 10 July 2011, 10:34 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:34 AM (76 days 6 h)

Report:



- Test crosses
- ■ ✓ Test crosses
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01

Diploma-in-General-Science: **Punnett square method of calculation**

First access: Sunday, 10 July 2011, 10:34 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:34 AM (76 days 6 h)

Report:





- Punnett square methods of calculation
- ■  Predicting results using algebraic and punnett square methods of calculation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
-  Punnet square method
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04

Diploma-in-General-Science: **Chromosomes and coding instructions**

First access: Sunday, 10 July 2011, 10:34 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:35 AM (76 days 6 h)

Report:








- Chromosomes and coding instructions
- ■  Chromosomes and coding instructions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
-  Chromosomes and Coding Instructions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
-  Genes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
-  Genes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-General-Science: **Protein synthesis**

First access: Sunday, 10 July 2011, 10:35 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:36 AM (76 days 6 h)

Report:

- Protein synthesis
- ■  Protein synthesis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
-  The DNA molecule
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:25
-  Formation of Functional DNA
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
-  Transcription
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
-  Ribosomes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
-  Translation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
-  Translation continued
 - ■ **Status:** completed

- **Total Time:** 00:00:10
- ✓ Protein synthesis – summary
- **Status:** completed
- **Total Time:** 00:00:10

Diploma-in-General-Science: Mutations and mutagens

First access: Sunday, 10 July 2011, 10:36 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:36 AM (76 days 6 h)

Report:

- Mutations and mutagens
- ■ ✓ Mutations and mutagens
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Point mutation
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ Chromosomal mutations (karyotyping - chromosomal abnormalities)
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Mutations
 - **Status:** completed
 - **Total Time:** 00:00:06

Diploma-in-General-Science: DNA Science

First access: Sunday, 10 July 2011, 10:37 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:37 AM (76 days 6 h)

Report:

- DNA Science
- ■ ✓ The DNA Science videos
 - **Status:** completed
 - **Total Time:** 00:00:04

Diploma-in-General-Science: Gene expression

First access: Sunday, 10 July 2011, 10:37 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:37 AM (76 days 6 h)

Report:

- Gene expression
- ■ ✓ Gene expression
 - **Status:** completed
 - **Total Time:** 00:00:04

Diploma-in-General-Science: Gene mapping

First access: Sunday, 10 July 2011, 10:37 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:38 AM (76 days 6 h)

Report:

- Gene mapping
- ■ ✓ Gene Mapping
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Calculating map distance of genes
 - **Status:** completed

- **Total Time:** 00:00:05
- ✓ Morgan's experiment
- **Status:** completed
- **Total Time:** 00:00:04
- ✓ Morgan's experiment continued
- **Status:** completed
- **Total Time:** 00:00:03
- ✓ Gene Mapping - Results
- **Status:** completed
- **Total Time:** 00:00:04

Diploma-in-General-Science: Gene technology

First access: Sunday, 10 July 2011, 10:38 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:38 AM (76 days 6 h)

Report:

- Gene technology
 - ■ ✓ Gene technology (genetic engineering/gene manipulation)
 - **Status:** completed
 - **Total Time:** 00:00:03
 - ✓ Gene technology
 - **Status:** completed
 - **Total Time:** 00:00:02
 - ✓ Gene technology
 - **Status:** completed
 - **Total Time:** 00:00:03

Diploma-in-General-Science: Tools and techniques of the biotechnologist

First access: Sunday, 10 July 2011, 10:38 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:39 AM (76 days 6 h)

Report:

- Tools and techniques of the biotechnologist
 - ■ ✓ Tools and techniques of the biotechnologist
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Southern blotting (named after Dr Southern who invented the process)
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Probes
 - **Status:** completed
 - **Total Time:** 00:00:13
 - ✓ Autoradiography
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ DNA profiling
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ DNA amplification
 - **Status:** completed
 - **Total Time:** 00:00:13
 - ✓ Bacterial plasmids
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Polymerase chain reaction (PCR)
 - **Status:** completed
 - **Total Time:** 00:00:13
 - ✓ Artificial synthesis of DNA
 - **Status:** completed
 - **Total Time:** 00:00:12

- DNA sequencing
- - **Status:** completed
 - **Total Time:** 00:00:12

Diploma-in-General-Science: Implications and Issues

First access: Sunday, 10 July 2011, 10:39 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:39 AM (76 days 6 h)

Report:

- Implications and Issues
- Implications and Issues
 - - **Status:** completed
 - **Total Time:** 00:00:07
 - Issues
 - - **Status:** completed
 - **Total Time:** 00:00:07
 - Issues - Social
 - - **Status:** completed
 - **Total Time:** 00:00:07
 - Issues - Moral
 - - **Status:** completed
 - **Total Time:** 00:00:06
 - Issues - Scientific
 - - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-General-Science: The implications of gene technology

First access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Report:

- The implications of gene technology
- The implications of gene technology video
 - - **Status:** completed
 - **Total Time:** 00:00:04
 - The future of gene technology video
 - - **Status:** completed
 - **Total Time:** 00:00:08
 - The genetic engineering video
 - - **Status:** completed
 - **Total Time:** 00:00:08
 - The genetic screening videos
 - - **Status:** completed
 - **Total Time:** 00:00:08
 - The moral issues and gene technology video
 - - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-General-Science: Karyotyping

First access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Report:

- Karyotyping
- Karyotyping
 - - **Status:** completed
 - **Total Time:** 00:00:01
 - Chromosomal Abnormalities



- ■ **Status:** completed
- ■ **Total Time:** 00:00:03

Diploma-in-General-Science: Linkage

First access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Report:


- Linkage
- ■  Linkage
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Crossing Over
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04

Diploma-in-General-Science: Cytokinesis

First access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:40 AM (76 days 6 h)

Report:





- Cytokinesis
- ■  Cytokinesis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-General-Science: The periodic table

First access: Sunday, 10 July 2011, 10:41 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:41 AM (76 days 6 h)

Report:

- The periodic table
- ■  The periodic table
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 -  What are groups?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  What groups mean
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  What are periods?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Why are compounds formed?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Full shells - metals and non-metals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 -  Using the periodic table
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Using symbols

First access: Sunday, 10 July 2011, 10:41 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:41 AM (76 days 6 h)

Report:

- Using symbols
- Using symbols - the language of chemistry
 - **Status:** completed
 - **Total Time:** 00:00:05

 **Diploma-in-General-Science: Atoms**

First access: Sunday, 10 July 2011, 10:41 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:42 AM (76 days 6 h)

Report:

- Activity 1 Atoms
- Activity 1 - Atoms
 - **Status:** completed
 - **Total Time:** 00:00:02
- Activity 1 - Molecules
 - **Status:** completed
 - **Total Time:** 00:00:06
- Activity 1 - Compounds and elements
 - **Status:** completed
 - **Total Time:** 00:00:05

 **Diploma-in-General-Science: Molecules**

First access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Report:

- Molecules
- What is a molecule?
 - **Status:** completed
 - **Total Time:** 00:00:04
- How molecules are made
 - **Status:** completed
 - **Total Time:** 00:00:04
- The pop test - joining hydrogen and oxygen
 - **Status:** completed
 - **Total Time:** 00:00:06
- A roaring good fire - joining carbon and oxygen
 - **Status:** completed
 - **Total Time:** 00:00:05

 **Diploma-in-General-Science: Elements and compounds**

First access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Report:

- Elements and compounds
- Classifying elements and compounds
 - **Status:** completed
 - **Total Time:** 00:00:04
- Chemical formulae
 - **Status:** completed
 - **Total Time:** 00:00:04
- Using chemical formulae to describe more complex molecules




- ■ **Status:** completed
- ■ **Total Time:** 00:00:05

Diploma-in-General-Science: Chemical bonds

First access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:43 AM (76 days 6 h)

Report:



- Chemical bonds
- ■  Types of chemical bonds - covalent and ionic bonding
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 -  Covalent compounds
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Covalent bonding
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Chemical reactions

First access: Sunday, 10 July 2011, 10:44 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:44 AM (76 days 6 h)

Report:




- Chemical reactions involving acids
- ■  Chemical reactions involving acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Reactions between acids and metal carbonates
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02

Diploma-in-General-Science: Reactions

First access: Sunday, 10 July 2011, 10:44 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:44 AM (76 days 6 h)

Report:


- Reaction
- ■  What is a reaction?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 -  Looking at reactions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 -  The pop test
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08

Diploma-in-General-Science: Atoms and molecules - summary

First access: Sunday, 10 July 2011, 10:44 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:46 AM (76 days 6 h)

Report:

- Atoms and molecules summaries
- ■  Atoms and molecules summaries

- ■ **Status:** completed
- ■ **Total Time:** 00:00:02
- ✓ Atoms and molecules revision activity
- ■ **Status:** completed
- ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Atoms and molecules glossary

First access: Sunday, 10 July 2011, 10:48 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:48 AM (76 days 6 h)

Report:

- Atoms and molecules glossary
- ■ ✓ Atoms and molecules glossary
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-General-Science: Ions

First access: Sunday, 10 July 2011, 10:49 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:49 AM (76 days 6 h)

Report:

- Ions
- ■ ✓ What are ions?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ The valence of atoms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Writing chemical formulae
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Particles

First access: Sunday, 10 July 2011, 10:49 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:49 AM (76 days 6 h)

Report:

- Matter
- ■ ✓ Matter
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ History of particles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Motion of particles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Gases, liquids and solids

First access: Sunday, 10 July 2011, 10:50 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:51 AM (76 days 6 h)

Report:

- Gases
- ■ ✓ Gas motion

- ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ States of matter
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:23
- ✓ Solids, liquids and gases
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:23
- ✓ Solids
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Liquids
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Gases
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Influence of temperature on liquid and gas particles
- ■ **Status:** completed
 - ■ **Total Time:** 00:01:13
- ✓ Influence of temperature on liquid particles
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:32
- ✓ Kinetic theory summary
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:31
- ✓ Gas motion
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:31
- ✓ Solids
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:31
- ✓ Liquids
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:32

Diploma-in-General-Science: Mixtures

First access: Sunday, 10 July 2011, 10:51 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:51 AM (76 days 6 h)

Report:

- Mixtures
- ■ ✓ Mixtures
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
- ✓ Soluble mixtures
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
- ✓ Insoluble mixtures
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Solutions
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Mixing liquids
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

Diploma-in-General-Science: Acids

First access: Sunday, 10 July 2011, 10:52 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:52 AM (76 days 6 h)

Report:

- Acids
 - ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Acids in industry
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Acids around us
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Acid strength
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11

 **Diploma-in-General-Science: Bases**

First access: Sunday, 10 July 2011, 10:52 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:52 AM (76 days 6 h)

Report:

- Bases
 - ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Corrosiveness of bases
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Alkalies
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

 **Diploma-in-General-Science: pH scale**

First access: Sunday, 10 July 2011, 10:53 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:53 AM (76 days 6 h)

Report:

- pH
 - ■ ✓ pH scale
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ pH change
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ pH scale
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

 **Diploma-in-General-Science: pH meters**

First access: Sunday, 10 July 2011, 10:53 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:53 AM (76 days 6 h)

Report:

- pH meters
 - ■ ✓ pH meters
 - ■ **Status:** completed

- **Total Time:** 00:00:02
- ✓ Using a pH meter
- **Status:** completed
- **Total Time:** 00:00:05
- ✓ Soil pH
- **Status:** completed
- **Total Time:** 00:00:06
- ✓ Soil pH
- **Status:** completed
- **Total Time:** 00:00:06

Diploma-in-General-Science: Acid-base indicators

First access: Sunday, 10 July 2011, 10:53 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:54 AM (76 days 6 h)

Report:

- Acid base indicators
- ■ ✓ Acid-base indicators
 - **Status:** completed
 - **Total Time:** 00:00:05
 - ✓ Litmus paper
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Litmus paper
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Universal indicator
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Universal indicator
 - **Status:** completed
 - **Total Time:** 00:00:06

Diploma-in-General-Science: Acids and bases - summary

First access: Sunday, 10 July 2011, 10:54 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:54 AM (76 days 6 h)

Report:

- Acids and bases summary
- ■ ✓ Acids and bases – Summary and revision
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Acid rain assignment
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Acid-base moments
 - **Status:** completed
 - **Total Time:** 00:00:10

Diploma-in-General-Science: Chromatography

First access: Sunday, 10 July 2011, 10:55 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:55 AM (76 days 6 h)

Report:

- Chromatography
- ■ ✓ Chromatography
 - **Status:** completed
 - **Total Time:** 00:00:34

Diploma-in-General-Science: **Solidification**

First access: Sunday, 10 July 2011, 10:55 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:55 AM (76 days 6 h)

Report:

- Condensation and solidification
- ■ Solidification
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22

Diploma-in-General-Science: **Decanting to separate liquids**

First access: Sunday, 10 July 2011, 10:57 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:57 AM (76 days 6 h)

Report:

- Decanting
- ■ Decanting to separate liquids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:01:19
- ■ Decanting and centrifuging to separate solids from liquids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:01:20

Diploma-in-General-Science: **Dissolving and precipitation**

First access: Sunday, 10 July 2011, 10:57 AM (76 days 6 h)

Last access: Sunday, 10 July 2011, 10:57 AM (76 days 6 h)

Report:

- nonsense title
- ■ Dissolving and precipitation
 - ■ **Status:** completed

Diploma-in-General-Science: **Evaporation and distillation**

First access: Sunday, 10 July 2011, 01:37 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:37 PM (76 days 3 h)

Report:

- Evaporation and distillation
- ■ Evaporation and distillation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15

Diploma-in-General-Science: **Evaporation**

First access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Report:

- Evaporation
- ■ Evaporation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ■ Evaporation


- ■ **Status:** completed
- ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Filtration

First access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Report:




- Filtration
- ■  Filtration
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Detecting gases

First access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:38 PM (76 days 3 h)

Report:



- Oxygen
- ■  Testing for oxygen
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
-  Testing for hydrogen
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
-  Detecting gases
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Separation techniques

First access: Sunday, 10 July 2011, 01:39 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:39 PM (76 days 3 h)

Report:



- Separating techniques
- ■  Separating techniques
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
-  Which separation technique?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Sublimation

First access: Sunday, 10 July 2011, 01:39 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:39 PM (76 days 3 h)

Report:

- Sublimation
- ■  Sublimation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
-  Sublimation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: The MOLE concept

First access: Sunday, 10 July 2011, 01:40 PM (76 days 3 h)

Last access: Sunday, 10 July 2011, 01:42 PM (76 days 3 h)

Report:















- The MOLE concept
- -  Calculations associated with chemical analysis by chemical reactions; the MOLE concept
 - **Status:** completed
 - **Total Time:** 00:00:31
 -  The mole concept
 - **Status:** completed
 - **Total Time:** 00:00:41
 -  Molar mass
 - **Status:** completed
 - **Total Time:** 00:00:39
 -  Mass - mole relationship
 - **Status:** completed
 - **Total Time:** 00:00:37
 -  Significant figures
 - **Status:** completed
 - **Total Time:** 00:00:35
 -  The mole concept and aqueous solutions
 - **Status:** completed
 - **Total Time:** 00:00:28
 -  Volume - mole - concentration relationship
 - **Status:** completed
 - **Total Time:** 00:00:27
 -  The volume-mole-concentration - activity 3
 - **Status:** completed
 - **Total Time:** 00:00:25
 -  The mole - number of particles relationship
 - **Status:** completed
 - **Total Time:** 00:00:18
 -  The mole-number of particles relationship - activity 4
 - **Status:** completed
 - **Total Time:** 00:00:37
 -  The mole concept and gases - the general gas equation
 - **Status:** completed
 - **Total Time:** 00:00:40
 -  Molar volume
 - **Status:** completed
 - **Total Time:** 00:00:41
 -  Molar volume - activity 7
 - **Status:** completed
 - **Total Time:** 00:00:40
 -  Molar volume - activity 8
 - **Status:** completed
 - **Total Time:** 00:00:37
 -  A summary of mole relationships
 - **Status:** completed
 - **Total Time:** 00:00:30
 -  Mole relationships - activity 9
 - **Status:** completed
 - **Total Time:** 00:00:26
 -  Significant figures
 - **Status:** completed
 - **Total Time:** 00:00:22
 -  Significant figures - activity 10
 - **Status:** completed
 - **Total Time:** 00:00:16

Diploma-in-General-Science: Volumetric analysis


First access: Sunday, 10 July 2011, 01:42 PM (76 days 3 h)

Last access: Friday, 15 July 2011, 01:58 PM (71 days 3 h)

Report:

- Volumetric analysis
-  Volumetric analysis
 -  **Status:** completed
 - **Total Time:** 00:00:06
 -  Titration
 - **Status:** completed
 - **Total Time:** 00:00:11
 -  Standard solutions
 - **Status:** completed
 - **Total Time:** 00:00:09
 -  Volumetric analysis, standard solutions - activity 2
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  Volumetric analysis, standard solutions - activity 3
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Volumetric analysis, standard solutions - activity 4
 - **Status:** completed
 - **Total Time:** 00:00:04
 -  Volumetric analysis, standard solutions - activity 5
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Dilution
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Volumetric analysis, dilution - activity 6
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Titration and indicators
 - **Status:** completed
 - **Total Time:** 00:00:05
 -  Common laboratory titrations
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Worked example
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  Volumetric analysis, common laboratory titrations - activity 7
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Dilution in volumetric analysis
 - **Status:** completed
 - **Total Time:** 00:00:04
 -  Dilution in volumetric analysis - worked example
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Errors and correct technique in volumetric analysis
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  Errors and correct technique in volumetric analysis - activity 8
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Redox titrations
 - **Status:** completed
 - **Total Time:** 00:00:02
 -  Volumetric analysis, redox titrations - activity 9
 - **Status:** completed

- **Total Time:** 00:00:03
- ✓ Back titrations
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Back titrations - worked example
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ The four calculations
- **Status:** completed
 - **Total Time:** 00:00:07
- ✓ Volumetric analysis, back titration - activity 10
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Volumetric analysis - activity 11
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Volumetric analysis - activity 12
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Volumetric analysis - activity 13
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Volumetric analysis - activity 15
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Volumetric analysis - activity 16
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Volumetric analysis - activity 14
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Dilution solution (a) and (b)
- **Status:** completed
 - **Total Time:** 00:00:05
- ✓ Dilution solution (c)
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Dilution solution (d) and (e)
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Titration solution
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Titration solution
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Titration solution
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Diluting concentrated acids
- **Status:** completed
 - **Total Time:** 00:00:07

 **Diploma-in-General-Science: Analysis by chemical reaction**

First access: Friday, 15 July 2011, 01:58 PM (71 days 3 h)

Last access: Friday, 15 July 2011, 01:59 PM (71 days 3 h)

Report:

- Analysis by chemical reaction
- ■ ✓ Analysis by chemical reaction
 - **Status:** completed
 - **Total Time:** 00:00:02

- ✓ Acid-base reactions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Bronsted - Lowry theory
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
- ✓ The Bronsted-Lowry theory question
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
- ✓ Structural characteristics of acids and bases
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Bases
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
- ✓ The structural characteristics of acids and bases - question 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
- ✓ Amphiprotic
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Structural characteristics of acids and bases - question 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Acid-base characteristics of oxides
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Other common reactions of acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Common reactions of acids - question 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Common reactions of acids - question 3
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Analytical chemistry

First access: Friday, 15 July 2011, 01:59 PM (71 days 3 h)

Last access: Friday, 15 July 2011, 02:01 PM (71 days 3 h)

Report:

- Analytical chemistry
 - ■ ✓ Analytical chemistry
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ What is chemical analysis?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Quantitative analysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Qualitative analysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Methods of chemical analysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Analysis by chemical reaction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Analysis by chemical reaction - question 1

- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Gravimetric analysis
- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Analysis by chemical reaction - question 2
- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Spectroscopic techniques
- ■ **Status:** completed
■ **Total Time:** 00:00:03
- ✓ Chromatographic techniques
- ■ **Status:** completed
■ **Total Time:** 00:00:03
- ✓ Which method?
- ■ **Status:** completed
■ **Total Time:** 00:00:07

📖 Diploma-in-General-Science: **Equilibrium**

First access: Friday, 15 July 2011, 02:01 PM (71 days 3 h)

Last access: Friday, 15 July 2011, 02:04 PM (71 days 3 h)

Report:

- Equilibrium
- ■ ✓ Equilibrium
 - ■ **Status:** completed
■ **Total Time:** 00:00:10
 - ✓ Equilibrium - key knowledge
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Yield of chemical reactions
 - ■ **Status:** completed
■ **Total Time:** 00:00:04
 - ✓ Factors in a chemical reaction
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Equilibrium, yield of chemical reactions - question 1
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Conversion of reactants
 - ■ **Status:** completed
■ **Total Time:** 00:00:04
 - ✓ The nature of a chemical reaction
 - ■ **Status:** completed
■ **Total Time:** 00:00:00
 - ✓ Chemical reactions are about bond-breaking and bond-making
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Collision theory. What are fruitful collisions?
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Equilibrium, collision theory - question 2
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Example of collisions
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Heat of reaction
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Equilibrium, heat of reaction - question 3

- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Exothermic and endothermic reactions
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Energy profiles
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Endothermic reactions
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Exothermic reactions
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Equilibrium, exothermic and endothermic reactions - question 4
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Equilibrium, exothermic and endothermic reactions - question 5
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Energy profiles and the effect of catalysts
- **Status:** completed
 - **Total Time:** 00:00:08
- ✓ Equilibrium, energy profiles and the effect of catalysts - question 6
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ A vital endothermic/exothermic combination
- **Status:** completed
 - **Total Time:** 00:00:08
- ✓ Equilibrium, the combustion of natural gas - question 7
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Energy changes
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Equilibrium, the combustion of hydrogen - question 8
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Equilibrium, rate of reaction - question 9
- **Status:** completed
 - **Total Time:** 00:00:04

Diploma-in-General-Science: **Chemical equilibrium**

First access: Friday, 15 July 2011, 02:42 PM (71 days 2 h)

Last access: Friday, 15 July 2011, 03:25 PM (71 days 1 h)

Report:

- Chemical equilibrium
- - ✓ Chemical equilibrium - reversible reactions
 - **Status:** completed
 - **Total Time:** 00:00:03
 - ✓ Chemical equilibrium, reversible reactions - question 1
 - **Status:** completed
 - **Total Time:** 00:00:02
 - ✓ What is chemical equilibrium?
 - **Status:** completed
 - **Total Time:** 00:00:03
 - ✓ Chemical reaction
 - **Status:** completed
 - **Total Time:** 00:00:04
 - ✓ Dynamic equilibrium

- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Chemical equilibrium, reversible reactions - activity 2
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Chemical equilibrium, reversible reactions - activity 3
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Chemical equilibrium, reversible reactions - activity 4
- **Status:** completed
 - **Total Time:** 00:01:20
- ✓ Chemical equilibrium, reversible reactions - activity 5
- **Status:** completed
 - **Total Time:** 00:19:53
- ✓ Some common equilibrium systems
- **Status:** completed
 - **Total Time:** 00:00:06
- ✓ Chemical equilibrium - reversible reactions activity 6
- **Status:** completed
 - **Total Time:** 00:18:33
- ✓ Position of equilibrium and the equilibrium law
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Chemical equilibrium, reversible reactions - activity 7
- **Status:** completed
 - **Total Time:** 00:00:07
- ✓ Chemical equilibrium, reversible reactions - activity 8
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Chemical equilibrium, reversible reactions - activity 9
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Concentration fraction
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Chemical equilibrium, reversible reactions - activity 11
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Chemical equilibrium, reversible reactions - activity 12
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Chemical equilibrium, reversible reactions - activity 13
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Chemical equilibrium, reversible reactions - activity 14
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Chemical equilibrium, reversible reactions - activity 15
- **Status:** completed
 - **Total Time:** 00:00:01
- ✓ Chemical equilibrium, reversible reactions - activity 16
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Chemical equilibrium, reversible reactions - activity 17
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Chemical equilibrium, reversible reactions - activity 18
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Chemical equilibrium, reversible reactions - activity 19
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Equilibrium constants

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
- ✓ Chemical equilibrium, reversible reactions - activity 20
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Equilibrium position
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Calculations involving the equilibrium law
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ What do equilibrium constants tell us?
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
- ✓ Concentration fraction at equilibrium
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:05

📁 Diploma-in-General-Science: **Equilibrium in living systems**

First access: Friday, 15 July 2011, 04:00 PM (71 days 1 h)

Last access: Friday, 15 July 2011, 04:02 PM (71 days 1 h)

Report:

- Equilibrium in living systems
- ■ ✓ Equilibrium in living systems
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
 - ✓ Equilibrium in living systems - maintaining blood pH
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
 - ✓ Maintaining blood pH - activity 1
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Maintaining blood pH - activity 2
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Equilibrium in living systems - oxygen transport
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Equilibrium in living systems, oxygen transport - activity 3
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Equilibrium in living systems, carbon monoxide poisoning - activity 4
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Equilibrium in living systems - carbon monoxide poisoning
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Extra equilibrium questions - activity 5
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Extra equilibrium questions - activity 6
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Extra equilibrium questions - activity 7
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Extra equilibrium questions - activity 8
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Extra equilibrium questions - activity 9

- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Buffer solutions
- ■ **Status:** completed
■ **Total Time:** 00:00:03
- ✓ Buffer solutions - activity 11
- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Selection of indicators
- ■ **Status:** completed
■ **Total Time:** 00:00:06

📁 Diploma-in-General-Science: **Functional groups and homologous series 1**

First access: Friday, 15 July 2011, 04:04 PM (71 days 1 h)

Last access: Friday, 15 July 2011, 04:06 PM (71 days 1 h)

Report:

- Functional groups and homologous series
- ■ ✓ Functional groups and homologous series
 - ■ **Status:** completed
■ **Total Time:** 00:00:00
 - ✓ The alkanes - the simplest homologous series
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - question 1
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Consider structures of first five members of the series
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Functional groups and homologous series - question 2
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Final three straight-chain alkanes
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - question 3
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Functional groups
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ R-Cl - chloroalkanes
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Systematic naming and chloroalkanes
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Functional groups and homologous series, chloroalkanes - question 4
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Alcohols, R-OH
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Hexane
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series, alcohols - question 5
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - carboxylic acids, R-COOH

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
- ✓ Functional groups and homologous series, carboxylic acids - question 6
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Functional groups and homologous series - functional groups and solubility
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Functional groups and homologous series - question 7
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:03

📖 Diploma-in-General-Science: **Functional groups and homologous series 2**

First access: Friday, 15 July 2011, 04:37 PM (71 days)

Last access: Friday, 15 July 2011, 04:38 PM (71 days)

Report:

- Functional groups and homologous series
- ■ ✓ Functional groups and homologous series - revision question 1
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
 - ✓ Functional groups and homologous series - revision question 4
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Functional groups and homologous series - revision question 5
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:07
 - ✓ Functional groups and homologous series - revision question 6
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - revision question 7
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - revision question 8
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Functional groups and homologous series - revision question 9
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Functional groups and homologous series - revision question 10
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Functional groups and homologous series - revision question 11
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Functional groups and homologous series - revision question 12
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:11

📖 Diploma-in-General-Science: **Le Chatelier's principle**

First access: Friday, 15 July 2011, 04:39 PM (71 days)

Last access: Friday, 15 July 2011, 04:40 PM (71 days)

Report:

- Le Chatelier's principle
- ■ ✓ Le Chatelier's principle – Introduction
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04
 - ✓ Effect of changes in temperature on an equilibrium system

- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Factors that affect the position of equilibrium
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
- ✓ Le Chatelier's principle, factors that affect the position of equilibrium - activity 2
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Le Chatelier's principle, factors that affect the position of equilibrium - activity 3
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Change consideration
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Catalysts and position of equilibrium
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Concentration - time graphs
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
- ✓ Le Chatelier's principle - activity 4
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
- ✓ Concentration time graphs
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Le Chatelier's principle, concentration-time graphs - activity 5
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Interesting aspects of the pressure/volume link
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Le Chatelier's principle, concentration-time graphs - activity 6
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ An unusual situation
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Le Chatelier's principle - activity 7
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Le Chatelier's principle - activity 8
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Le Chatelier's principle - activity 9
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-General-Science: **Precipitation reactions**

First access: Friday, 15 July 2011, 04:41 PM (71 days)

Last access: Friday, 15 July 2011, 04:42 PM (71 days)

Report:

- Precipitation reactions
- ■ ✓ Precipitation reactions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Chemical reactions solubility rules
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02

- ✓ Chemical reactions ionic equations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Ionic equations - question 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Ionic equations - question 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:30

📁 Diploma-in-General-Science: **Preparation of ethanoic acid from ethane**

First access: Friday, 15 July 2011, 04:42 PM (71 days)

Last access: Friday, 15 July 2011, 04:43 PM (71 days)

Report:

- Preparation of ethanoic acid from ethane
 - ■ ✓ Preparation of ethanoic acid from ethane
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Preparation of ethanoic acid from ethane: activity 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Step 2. Chloroethane to ethanol
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Step 3. Ethanol to ethanoic acid
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Preparation of ethanoic acid from ethane: activity 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Summary
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Preparation of ethanoic acid from ethane: activity 3
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

📁 Diploma-in-General-Science: **Rate of reaction**

First access: Friday, 15 July 2011, 04:43 PM (71 days)

Last access: Friday, 15 July 2011, 04:44 PM (71 days)

Report:

- Rate of reaction
 - ■ ✓ Rate of reaction: introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Factors influencing rate of reaction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ The chemical nature
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ The physical state of the reactants
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Initial concentration
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Temperature

- ■ **Status:** completed
- ■ **Total Time:** 00:00:03
- ✓ Catalysts
- ■ **Status:** completed
- ■ **Total Time:** 00:00:09

📁 Diploma-in-General-Science: **Rate of reaction revision questions**

First access: Friday, 15 July 2011, 04:44 PM (71 days)

Last access: Friday, 15 July 2011, 04:45 PM (71 days)

Report:

- Rate of reaction revision questions
 - ■ ✓ Rate of reaction revision questions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Rate of reaction - activity 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Equilibrium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ Rate of reaction - activity 4
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Rate of reaction - activity 5
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Rate of reaction - activity 6
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Rate of reaction - activity 7
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

📁 Diploma-in-General-Science: **Reaction between ethanol and ethanoic acid to form the ester**

First access: Friday, 15 July 2011, 04:45 PM (71 days)

Last access: Friday, 15 July 2011, 04:46 PM (71 days)

Report:

- Reaction between ethanol and ethanoic acid to form the ester
 - ■ ✓ Reaction between ethanol and ethanoic acid to form the ester, ethyl ethanoate
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Esters in general
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Names, formulas and odours of some esters
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Esters - activity 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Esters - activity 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Esters, fats and vegetable oils
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Polyesters - condensation polymers

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Polymer chain
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
- ✓ Industrial polyester
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
- ✓ Polyethylene terephthalate
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
- ✓ Polyesters - activity 3
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Esters - activity 4
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Another equation for ethanol and ethanoic acid
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:09

Diploma-in-General-Science: **Redox reactions**

First access: Friday, 15 July 2011, 04:46 PM (71 days)

Last access: Friday, 15 July 2011, 04:48 PM (71 days)

Report:

- Redox reactions
 - ■ ✓ Redox reactions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Oxygen transfer
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Hydrogen transfer
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Electron transfer
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Redox reactions - question 1
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Oxidation numbers
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:08
 - ✓ Oxidation numbers in redox reactions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:10
 - ✓ Redox reactions; oxidation numbers - question 2
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Developing half-equations (partial ionic equations)
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Redox reactions - question 3
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Alternative approach
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Dichromate to chromium III

- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Oxidation consideration
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Oxidation of ethanol
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Redox reactions; developing half-equations - question 4
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Combining oxidation and reduction half-equations
- **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Redox reactions; combining oxidation and reduction half-equations - question 5
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Redox reactions; combining oxidation and reduction half-equations - question 6
- **Status:** completed
 - **Total Time:** 00:00:04

Diploma-in-General-Science: **Structural isomers**

First access: Saturday, 6 August 2011, 06:07 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:07 PM (48 days 23 h)

Report:

- Structural isomers
 - ■ ✓ Structural isomers
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ Structural isomers - question 1
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Structural isomers of chloroalkanes and alcohols
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Chloroalkanes and alcohols containing three carbon atoms
 - **Status:** completed
 - **Total Time:** 00:00:13
 - ✓ Chloroalkanes containing four carbon atoms
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Alcohols containing four carbon atoms
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Structural isomers of chloroalkanes and alcohols - question 1
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Structural isomers of chloroalkanes and alcohols - question 2
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Structural isomers of chloroalkanes and alcohols - question 3
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Structural isomers of chloroalkanes and alcohols - question 4
 - **Status:** completed
 - **Total Time:** 00:00:06

Diploma-in-General-Science: **Substitution reactions**

First access: Saturday, 6 August 2011, 06:07 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:07 PM (48 days 23 h)

Report:

- Substitution reactions
- Substitution reactions
 - **Status:** completed
 - **Total Time:** 00:00:00
 - Substitution reactions - question 1
 - **Status:** completed
 - **Total Time:** 00:00:02

 **Diploma-in-General-Science: Water Kw and the use of the pH scale**

First access: Saturday, 6 August 2011, 06:08 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:09 PM (48 days 23 h)

Report:

- Water Kw and the use of the pH scale
- Water Kw and the use of the pH scale: introduction
 - **Status:** completed
 - **Total Time:** 00:00:05
 - The self-ionisation of water and Kw
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Calculations using Kw
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Water Kw and the use of pH scale - activity 1
 - **Status:** completed
 - **Total Time:** 00:00:15
 - Water Kw and the use of pH scale - activity 2
 - **Status:** completed
 - **Total Time:** 00:00:16
 - Water Kw and the use of pH scale - activity 3
 - **Status:** completed
 - **Total Time:** 00:00:12
 - pH
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Water Kw and the use of pH scale - activity 4
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Water Kw and the use of pH scale - activity 5
 - **Status:** completed
 - **Total Time:** 00:00:06
 - Water Kw and the use of pH scale - activity 6
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Water Kw and the use of pH scale - activity 7
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Water Kw and the use of pH scale - activity 8
 - **Status:** completed
 - **Total Time:** 00:00:10
 - The significance of a one unit change in pH
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Water Kw and the use of pH scale - activity 9
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Water Kw and the use of pH scale - activity 11

- ■ **Status:** completed
■ **Total Time:** 00:00:07
- ✓ Water Kw and the use of pH scale - activity 10
- ■ **Status:** completed
■ **Total Time:** 00:00:10
- ✓ Water Kw and the use of pH scale - activity 12
- ■ **Status:** completed
■ **Total Time:** 00:00:07
- ✓ Water Kw and the use of pH scale - activity 13
- ■ **Status:** completed
■ **Total Time:** 00:00:08
- ✓ pH and temperature
- ■ **Status:** completed
■ **Total Time:** 00:00:08
- ✓ Concentrations of hydroxide and hydronium ions
- ■ **Status:** completed
■ **Total Time:** 00:00:09

📁 Diploma-in-General-Science: **Sulfuric acid**

First access: Saturday, 6 August 2011, 06:10 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:12 PM (48 days 23 h)

Report:

- Sulfuric acid
- ■ ✓ Industrial chemistry - Sulfuric acid
 - ■ **Status:** completed
■ **Total Time:** 00:00:12
 - ✓ Sulfuric acid - reaction yield/reaction rate
 - ■ **Status:** completed
■ **Total Time:** 00:00:16
 - ✓ Reaction yield/reaction rate - question 1
 - ■ **Status:** completed
■ **Total Time:** 00:00:26
 - ✓ Sulfuric acid, reaction yield/reaction rate - question 2
 - ■ **Status:** completed
■ **Total Time:** 00:00:27
 - ✓ Sulfuric acid - raw materials used in the production of sulfuric acid
 - ■ **Status:** completed
■ **Total Time:** 00:00:25
 - ✓ Sulfuric acid - key reactions in the production of sulfuric acid
 - ■ **Status:** completed
■ **Total Time:** 00:00:24
 - ✓ Sulfuric acid - the catalytic conversion
 - ■ **Status:** completed
■ **Total Time:** 00:00:18
 - ✓ Sulfuric acid - the absorption
 - ■ **Status:** completed
■ **Total Time:** 00:00:12
 - ✓ Sulfuric acid - question 3
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ Sulfuric acid - optimum conditions and the rate/yield conflict in the contact process
 - ■ **Status:** completed
■ **Total Time:** 00:00:13
 - ✓ Sulfuric acid - temperature, and a catalyst
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Sulfuric acid - pressure, near atmospheric
 - ■ **Status:** completed
■ **Total Time:** 00:00:18
 - ✓ Sulfuric acid - excess oxygen (air)

- ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
- ✓ Sulfuric acid - environmental factors
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
- ✓ Properties and uses of sulfuric acid
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Sulfuric acid - question 4
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Concentrated sulfuric acid
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ Sulfuric acid - question 5
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
- ✓ Oxidising capabilities of concentrated sulfuric acid
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ Sulfuric acid - question 6
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
- ✓ Main use of sulfuric acid in Australia
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Sulfuric acid - question 7
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
- ✓ Sulfuric acid - question 8
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Sulfuric acid - question 9
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
- ✓ Sulfuric acid - question 10
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ Sulfuric acid - question 11
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

Diploma-in-General-Science: Gravimetric analysis

First access: Saturday, 6 August 2011, 06:12 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:13 PM (48 days 23 h)

Report:

- Gravimetric analysis
- - ✓ Percentage by mass and the mole concept
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Gravimetric analysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:24
 - ✓ Gravimetric analysis - worked example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
 - ✓ Gravimetric analysis - activity 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
 - ✓ Gravimetric analysis - activity 3

- ■ **Status:** completed
■ **Total Time:** 00:00:23
- ✓ Empirical and molecular formulas
- ■ **Status:** completed
■ **Total Time:** 00:00:12
- ✓ Gravimetric analysis - activity 4
- ■ **Status:** completed
■ **Total Time:** 00:00:11
- ✓ Gravimetric analysis - activity 5
- ■ **Status:** completed
■ **Total Time:** 00:00:14
- ✓ Gravimetric analysis - activity 6
- ■ **Status:** completed
■ **Total Time:** 00:00:11

Diploma-in-General-Science: Spectroscopic techniques

First access: Saturday, 6 August 2011, 06:19 PM (48 days 23 h)

Last access: Saturday, 6 August 2011, 06:19 PM (48 days 23 h)

Report:

- Spectroscopic techniques
 - ■ ✓ Spectroscopic techniques, absorption and emission of energy - activity 1
 - ■ **Status:** completed
■ **Total Time:** 00:06:12
 - ✓ Spectroscopic techniques - activity 2
 - ■ **Status:** completed
■ **Total Time:** 00:06:08
 - ✓ Spectroscopic techniques, colorimetry - activity 3
 - ■ **Status:** completed
■ **Total Time:** 00:06:04
 - ✓ Spectroscopic techniques, colorimetry - activity 4
 - ■ **Status:** completed
■ **Total Time:** 00:05:58
 - ✓ Spectroscopic techniques - activity 5
 - ■ **Status:** completed
■ **Total Time:** 00:05:44

Diploma-in-General-Science: Spectroscopic techniques in chemical analysis

First access: Saturday, 6 August 2011, 06:46 PM (48 days 22 h)

Last access: Saturday, 6 August 2011, 06:46 PM (48 days 22 h)

Report:

- Spectroscopic techniques in chemical analysis
 - ■ ✓ Spectroscopic techniques in chemical analysis
 - ■ **Status:** completed
■ **Total Time:** 00:00:10
 - ✓ Absorption and emission of energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:20
 - ✓ Absorption spectra
 - ■ **Status:** completed
■ **Total Time:** 00:00:22
 - ✓ Emission spectra
 - ■ **Status:** completed
■ **Total Time:** 00:00:22
 - ✓ Complementary nature of emission and absorption spectra
 - ■ **Status:** completed
■ **Total Time:** 00:00:21
 - ✓ Colorimetry

- ■ **Status:** completed
- ■ **Total Time:** 00:00:20
- ✓ Atomic absorption spectroscopy - AAS
- ■ **Status:** completed
- ■ **Total Time:** 00:00:19
- ✓ UV - visible spectroscopy
- ■ **Status:** completed
- ■ **Total Time:** 00:00:18

Diploma-in-General-Science: Chromatography

First access: Saturday, 6 August 2011, 06:46 PM (48 days 22 h)

Last access: Saturday, 6 August 2011, 06:47 PM (48 days 22 h)

Report:

- Chromatography
- ■ ✓ Chromatography
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Paper and thin-layer chromatography
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ High performance liquid chromatography (HPLC)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Gas chromatography (GC)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-General-Science: Chromatography - activity

First access: Saturday, 6 August 2011, 06:47 PM (48 days 22 h)

Last access: Saturday, 6 August 2011, 06:47 PM (48 days 22 h)

Report:

- Chromatography - activity
- ■ ✓ Chromatography - activity 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ✓ Chromatography - activity 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ Chromatography - activity 3
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Chromatography - activity 4
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ Chromatography - activity 5
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

Diploma-in-General-Science: Industrial chemistry

First access: Saturday, 6 August 2011, 06:48 PM (48 days 22 h)

Last access: Saturday, 6 August 2011, 06:48 PM (48 days 22 h)

Report:

- Industrial chemistry
- ■ ✓ Industrial chemistry

- ■ **Status:** completed
■ **Total Time:** 00:00:07
- ✓ Importance of yield
- ■ **Status:** completed
■ **Total Time:** 00:00:10
- ✓ Industrial chemistry key knowledge areas
- ■ **Status:** completed
■ **Total Time:** 00:00:12

Diploma-in-General-Science: [The petrochemical industry](#)

First access: Saturday, 6 August 2011, 06:49 PM (48 days 22 h)

Last access: Saturday, 6 August 2011, 06:49 PM (48 days 22 h)

Report:

- The petrochemical industry
- ■ ✓ The petrochemical industry
 - ■ **Status:** completed
■ **Total Time:** 00:00:10
 - ✓ The petrochemical industry - activity 1
 - ■ **Status:** completed
■ **Total Time:** 00:00:28
 - ✓ Refining crude oil
 - ■ **Status:** completed
■ **Total Time:** 00:00:27
 - ✓ Fractional distillation of crude oil
 - ■ **Status:** completed
■ **Total Time:** 00:00:30
 - ✓ The petrochemical industry - activity 2
 - ■ **Status:** completed
■ **Total Time:** 00:00:25
 - ✓ More of what we want
 - ■ **Status:** completed
■ **Total Time:** 00:00:20
 - ✓ Three main uses of crude oil
 - ■ **Status:** completed
■ **Total Time:** 00:00:20

Diploma-in-General-Science: [The petrochemical industry - activity](#)

First access: Saturday, 6 August 2011, 06:50 PM (48 days 22 h)

Last access: Saturday, 13 August 2011, 12:37 PM (42 days 4 h)

Report:

- The petrochemical industry - activity
- ■ ✓ The petrochemical industry - activity 10
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ The petrochemical industry - activity 9
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ The petrochemical industry - activity 8
 - ■ **Status:** completed
■ **Total Time:** 00:00:31
 - ✓ The petrochemical industry - activity 7
 - ■ **Status:** completed
■ **Total Time:** 00:00:28
 - ✓ The petrochemical industry - activity 6
 - ■ **Status:** completed
■ **Total Time:** 00:00:25
 - ✓ Other important addition polymers derived from ethene

- ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
- ✓ Addition polymerisation and polyethylene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
- ✓ The petrochemical industry, reactions of ethene - activity 5
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
- ✓ The petrochemical industry, reactions of ethene - activity 4
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ Reactions of ethene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
- ✓ Environmental aspects of ethene production
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
- ✓ Ethene - the simplest alkene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ The industrial production of ethene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ The petrochemical industry, alkanes and alkenes - activity 1
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Cracking of ethane and propane to produce ethylene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ The petrochemical industry, the industrial production of ethene - activity 2
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
- ✓ Pressure and steam - an interesting aspect of ethene production!
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:23
- ✓ The petrochemical industry, pressure and steam in ethene production - activity 3
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- ✓ Cracking of hydrocarbons
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Examples of addition reactions of ethylene
- ■ **Status:** completed
 - ■ **Total Time:** 00:00:18

Diploma-in-General-Science: The origins of the elements

First access: Saturday, 13 August 2011, 12:37 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:38 PM (42 days 4 h)

Report:

- The origins of the elements
- ■ ✓ The big picture - the origins of the elements
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ The naturally-occurring elements
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Glen Seaborg and the transuranium elements
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

Diploma-in-General-Science: [The periodic table: an overview of chemistry](#)

First access: Saturday, 13 August 2011, 12:38 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:38 PM (42 days 4 h)

Report:

- The periodic table: an overview of chemistry
 - The periodic table: an overview of chemistry
 - **Status:** completed
 - **Total Time:** 00:00:11
 - The periodic table - a little history
 - **Status:** completed
 - **Total Time:** 00:00:17
 - The elements
 - **Status:** completed
 - **Total Time:** 00:00:19
 - Mendeleev
 - **Status:** completed
 - **Total Time:** 00:00:08

Diploma-in-General-Science: [Trends in the periodic table](#)

First access: Saturday, 13 August 2011, 12:39 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:39 PM (42 days 4 h)

Report:

- Trends in the periodic table
 - Trends in the periodic table
 - **Status:** completed
 - **Total Time:** 00:00:12
 - Atomic radius and ionisation energy
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Trends in atomic radius
 - **Status:** completed
 - **Total Time:** 00:00:21
 - Ionisation energy
 - **Status:** completed
 - **Total Time:** 00:00:12
 - Electronegativity
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Redox properties and metallic/non-metallic character
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Summary of trends in the periodic table
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Acid/base properties of oxides across a period
 - **Status:** completed
 - **Total Time:** 00:00:13

Diploma-in-General-Science: [Elements of the first transition series](#)

First access: Saturday, 13 August 2011, 12:40 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:41 PM (42 days 4 h)

Report:

- Elements of the first transition series
 - Elements (metals) of the first transition series
 - **Status:** completed

- **Total Time:** 00:00:10
- ✓ Electron arrangements of the first transition series
- **Status:** completed
- **Total Time:** 00:00:16
- ✓ Some properties of the first row transition elements
- **Status:** completed
- **Total Time:** 00:00:29
- ✓ The significance of the 4s subshell
- **Status:** completed
- **Total Time:** 00:00:30
- ✓ Oxidation numbers (states) of transition metals
- **Status:** completed
- **Total Time:** 00:00:25
- ✓ Colour and transition metal compounds
- **Status:** completed
- **Total Time:** 00:00:29
- ✓ Transition metals and complex ion formation
- **Status:** completed
- **Total Time:** 00:00:15
- ✓ Transition metals and group I and II metals - a comparison
- **Status:** completed
- **Total Time:** 00:00:17
- ✓ The f-block
- **Status:** completed
- **Total Time:** 00:00:18

📖 Diploma-in-General-Science: **History and development of atomic theory**

First access: Saturday, 13 August 2011, 12:41 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:42 PM (42 days 4 h)

Report:

- History and development of atomic theory
- ■ ✓ History and development of atomic theory
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Democritus
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ Dalton
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Ramsay
 - **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ John Joseph Thomson
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Marie Curie
 - **Status:** completed
 - **Total Time:** 00:00:18
 - ✓ Ernest Rutherford
 - **Status:** completed
 - **Total Time:** 00:00:18

📖 Diploma-in-General-Science: **Electrons**

First access: Saturday, 13 August 2011, 12:46 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:48 PM (42 days 4 h)

Report:

- Electrons

- ■ ✓ Electrons
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:34
 - ✓ Niels Bohr and emission/absorption of energy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:32
 - ✓ Electron arrangements
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:38
 - ✓ Ionisation energy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:42
 - ✓ The orbital motion of the atom – Building on Bohr's energy levels
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:43
 - ✓ Electron configuration and periodic classification
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Electron configuration and periodic classification: the group relationship
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ The modern periodic law
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Electron configuration and periodic classification: a highly informative isotopic symbol
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Electron configuration and periodic classification: hydrogen and helium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Further aspects of the periodic table
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17

Diploma-in-General-Science: Isotopes and relative atomic mass

First access: Saturday, 13 August 2011, 12:49 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:49 PM (42 days 4 h)

Report:

- Isotopes and relative atomic mass
 - ■ ✓ Isotopes and relative atomic mass
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:29
 - ✓ Frederick Soddy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Mass spectroscopy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Relative atomic mass
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:33
 - ✓ James Chadwick and the neutron
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:37

Diploma-in-General-Science: Nuclear fission and fusion

First access: Saturday, 13 August 2011, 12:50 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:50 PM (42 days 4 h)

Report:

- Nuclear fission and fusion
- Nuclear fission and fusion
 - **Status:** completed
 - **Total Time:** 00:00:06
 - Lise Meitner and nuclear fission
 - **Status:** completed
 - **Total Time:** 00:00:20
 - Nuclear fusion
 - **Status:** completed
 - **Total Time:** 00:00:07
 - The appeal of fusion
 - **Status:** completed
 - **Total Time:** 00:00:08

📖 Diploma-in-General-Science: Thermochemical equations

First access: Saturday, 13 August 2011, 12:51 PM (42 days 4 h)

Last access: Saturday, 13 August 2011, 12:51 PM (42 days 4 h)

Report:

- Thermochemical equations
- Heats of combustion
 - **Status:** completed
 - **Total Time:** 00:00:11
- Thermochemical equations
 - **Status:** completed
 - **Total Time:** 00:00:13
- Thermochemical equations: an explosive reaction
 - **Status:** completed
 - **Total Time:** 00:00:17

📖 Diploma-in-General-Science: Electrochemistry

First access: Saturday, 13 August 2011, 01:57 PM (42 days 3 h)

Last access: Monday, 15 August 2011, 09:26 AM (40 days 7 h)

Report:

- Electrochemistry
- Electrochemistry
 - **Status:** completed
 - **Total Time:** 00:00:03
- Galvanic cells
 - **Status:** completed
 - **Total Time:** 00:00:02
- Half-cell combinations
 - **Status:** completed
 - **Total Time:** 00:00:02
- The electrochemical series
 - **Status:** completed
 - **Total Time:** 00:00:07
- The Daniell cell
 - **Status:** completed
 - **Total Time:** 00:00:12
- Leclanche dry cell
 - **Status:** completed
 - **Total Time:** 00:00:11
- Secondary cells: the lead-acid battery
 - **Status:** completed
 - **Total Time:** 00:00:09

- ✓ Using the electrochemical series
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
- ✓ Limitations of the electrochemical series
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
- ✓ Applications of galvanic cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
- ✓ Secondary cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- ✓ Alkaline cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
- ✓ Other alkaline cells
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
- ✓ Batteries - the future
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
- ✓ Recharging of the lead-acid battery
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

Diploma-in-General-Science: **Electrolysis**

First access: Monday, 15 August 2011, 09:27 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:28 AM (40 days 7 h)

Report:





- Electrolysis
 - ■ ✓ Electrolysis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Electroplating
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Electrolysis of molten NaCl
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ The Downs cell - industrial production of sodium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Electrolysis of aqueous solutions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Electrolysis of dilute sodium chloride
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Electrolysis of dilute hydrochloric acid
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Electrolysis of dilute copper chloride
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Electrolysis: copper plating
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Quantitative aspects of electrolysis – Faraday's laws
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

Diploma-in-General-Science: [Fuel cells](#)

First access: Monday, 15 August 2011, 09:28 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:28 AM (40 days 7 h)

Report:




- Fuel cells
-  Hydrogen - oxygen fuel cells
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  Current developments
 - **Status:** completed
 - **Total Time:** 00:00:05
 -  Fuel cells
 - **Status:** completed
 - **Total Time:** 00:00:08
 -  Other fuels
 - **Status:** completed
 - **Total Time:** 00:00:05

Diploma-in-General-Science: [Aqueous solution or molten salt - the production of aluminium](#)

First access: Monday, 15 August 2011, 09:29 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:29 AM (40 days 7 h)

Report:




- aqueous solution or molten salt - the production of aluminium
-  Aqueous solution or molten salt - the production of aluminium
 - **Status:** completed
 - **Total Time:** 00:00:07
 -  Aqueous solution or molten salt - the production of aluminium: the production of aluminium by electrolysis
 - **Status:** completed
 - **Total Time:** 00:00:01
 -  Aqueous solution or molten salt - the production of aluminium: factors that determine the products of electrolysis
 - **Status:** completed
 - **Total Time:** 00:00:01

Diploma-in-General-Science: [Production of chlorine and sodium hydroxide: The chloralkali industry](#)

First access: Monday, 15 August 2011, 09:31 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:32 AM (40 days 7 h)

Report:

- Production of chlorine and sodium hydroxide: The chloralkali industry
-  Production of chlorine and sodium hydroxide - the chloralkali industry
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  The diaphragm cell
 - **Status:** completed
 - **Total Time:** 00:00:06
 -  Membrane cell
 - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-General-Science: [Energy conversions](#)

First access: Monday, 15 August 2011, 09:33 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:33 AM (40 days 7 h)

Report:

- Energy conversions
- ■ ✓ Energy conversions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Energy conversions in a coal-fired power station
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Efficiency of energy conversions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19

📖 **Diploma-in-General-Science: [Supplying and using energy](#)**

First access: Monday, 15 August 2011, 09:34 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:34 AM (40 days 7 h)

Report:

- Supplying and using energy
- ■ ✓ Supplying and using energy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
 - ✓ The range of energy sources available to society
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:24
 - ✓ Non-renewable energy sources: fossil fuels
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 - ✓ Non-renewable energy sources: nuclear energy - fission and fusion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 - ✓ Renewable energy sources
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Renewable energy sources: solar energy
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Renewable energy sources: water and wind
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Renewable energy sources: biomass
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

📖 **Diploma-in-General-Science: [The nitrogen cycle](#)**

First access: Monday, 15 August 2011, 09:38 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:38 AM (40 days 7 h)

Report:

- The nitrogen cycle
- ■ ✓ The nitrogen cycle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:43
 - ✓ Nitrogenous fertilisers
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:47
 - ✓ Matter cycles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:03:46

- ✓ The carbon cycle
- ■ **Status:** completed
- ■ **Total Time:** 00:03:47

📁 Diploma-in-General-Science: **Digestion**

First access: Monday, 15 August 2011, 09:39 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:39 AM (40 days 7 h)

Report:

- Digestion
 - ■ ✓ Digestion - the enzyme-catalysed hydrolysis of proteins, carbohydrates and fats
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Protein - digestion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Carbohydrates - digestion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Lipid - digestion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

📁 Diploma-in-General-Science: **Carbohydrates**

First access: Monday, 15 August 2011, 09:40 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:40 AM (40 days 7 h)

Report:

- Carbohydrates
 - ■ ✓ carbohydrates
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Photosynthesis
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Monosaccharides
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Disaccharides
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Polysaccharides (complex carbohydrates)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Hydrolysis of disaccharides
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Hydrolysis of starch to glucose
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

📁 Diploma-in-General-Science: **Proteins**

First access: Monday, 15 August 2011, 09:41 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:43 AM (40 days 7 h)

Report:

- Proteins

- ■ ✓ Proteins
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Amino acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Amino acids continued
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Acid based properties of amino acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Formation of proteins from amino acids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:43
 - ✓ Protein structure
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:44
 - ✓ Denaturation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:39
 - ✓ Enzymes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:36
 - ✓ Enzymes continued
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:26

📁 Diploma-in-General-Science: **Fats and vegetable oils**

First access: Monday, 15 August 2011, 09:44 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:44 AM (40 days 7 h)

Report:

- Fats and vegetable oils
 - ■ ✓ Fats and vegetable oils - triglycerides
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Fats and oils
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Hydroxy groups
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Glycerol
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Saturated and unsaturated fats
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

📁 Diploma-in-General-Science: **The role of water**

First access: Monday, 15 August 2011, 09:45 AM (40 days 7 h)

Last access: Monday, 15 August 2011, 09:45 AM (40 days 7 h)

Report:

- The role of water
 - ■ ✓ The role of water
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

- Water continued
- - **Status:** completed
 - **Total Time:** 00:00:07
- Carbon dioxide, water and urea
- - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-General-Science: Food chemistry

First access: Monday, 15 August 2011, 09:51 AM (40 days 7 h)

Last access: Saturday, 20 August 2011, 03:58 PM (35 days 1 h)

Report:

- Food chemistry
- Food chemistry
 - - **Status:** completed
 - **Total Time:** 00:00:01
 - Food energy
 - **Status:** completed
 - **Total Time:** 00:00:14
 - The purpose and key components of food
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Components of food
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Nutrients and nutrition
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Nutrients and nutrition continued
 - **Status:** completed
 - **Total Time:** 00:00:10
 - The carbon compounds that comprise the major food groups
 - **Status:** completed
 - **Total Time:** 00:00:33
 - Respiration
 - **Status:** completed
 - **Total Time:** 00:00:31
 - The source of the energy in food
 - **Status:** completed
 - **Total Time:** 00:00:13

Diploma-in-General-Science: Energy content of foods

First access: Saturday, 20 August 2011, 03:59 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:00 PM (35 days 1 h)

Report:

- Energy content of foods
- The relative energy content of foods
 - - **Status:** completed
 - **Total Time:** 00:00:17
 - Glycogen and fat as energy reserves in the body
 - **Status:** completed
 - **Total Time:** 00:00:18
 - Glycogen continued
 - **Status:** completed
 - **Total Time:** 00:00:16

Diploma-in-General-Science: The relative energy content of foods

First access: Saturday, 20 August 2011, 04:01 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:01 PM (35 days 1 h)

Report:

- The relative energy content of foods
- ■ ✓ The relative energy content of foods video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:40

📁 **Diploma-in-General-Science: Calorimetry**

First access: Saturday, 20 August 2011, 04:03 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:05 PM (35 days 1 h)

Report:

- Calorimetry
- ■ ✓ Calorimetry - measuring heats of reaction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:43
 - ✓ Components of a calorimeter
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:27
 - ✓ Calibrating a calorimeter
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:27
 - ✓ Calorimetry: determining the heat of reaction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Calorimetry - measuring heats of reaction: specific heat capacity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16

📁 **Diploma-in-General-Science: Food additives**

First access: Saturday, 20 August 2011, 04:05 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:07 PM (35 days 1 h)

Report:

- Food additives
- ■ ✓ Food additives
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Antioxidants
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Emulsifiers
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:30

📁 **Diploma-in-General-Science: The energy consumed in food production**

First access: Saturday, 20 August 2011, 04:07 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:07 PM (35 days 1 h)

Report:


- The energy consumed in food production
- ■ ✓ The energy consumed in food production video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:24

Diploma-in-General-Science: The denaturation of proteins

First access: Saturday, 20 August 2011, 04:08 PM (35 days 1 h)

Last access: Saturday, 20 August 2011, 04:08 PM (35 days 1 h)

Report:







- The denaturation of proteins
- ■  The denaturation of proteins video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17

Diploma-in-General-Science: Introduction to electric systems

First access: Saturday, 10 September 2011, 03:24 PM (14 days 1 h)

Last access: Saturday, 10 September 2011, 03:25 PM (14 days 1 h)

Report:






- Physics: Introduction to electric systems
- ■  Current, charge, voltage
 - ■ **Status:** completed
 -  Charge in coulombs
 - ■ **Status:** completed
 -  Voltage
 - ■ **Status:** completed
 -  Resistance
 - ■ **Status:** completed
 -  Work done
 - ■ **Status:** completed
 -  Power
 - ■ **Status:** completed

Diploma-in-General-Science: Circuits

First access: Saturday, 10 September 2011, 03:27 PM (14 days 1 h)

Last access: Wednesday, 21 September 2011, 10:16 PM (2 days 19 h)

Report:


- Physics: Circuits
- ■  The series circuit
 - ■ **Status:** completed
 -  Parallel circuits
 - ■ **Status:** completed
 -  Parallel circuits: worked example 1
 - ■ **Status:** completed
 -  Parallel circuits: worked example 2
 - ■ **Status:** completed
 -  AC circuits
 - ■ **Status:** completed

Diploma-in-General-Science: Electric systems, circuits

First access: Wednesday, 21 September 2011, 10:17 PM (2 days 19 h)

Last access: Wednesday, 21 September 2011, 10:17 PM (2 days 19 h)

Report:

- Physics: Electric systems, circuits
- ■  Calculations with series circuits

- ■ **Status:** completed
- ✓ Series circuit: worked example
- ■ **Status:** completed
- ✓ Calculations with parallel circuits
- ■ **Status:** completed
- ✓ Parallel circuit: worked example
- ■ **Status:** completed

Diploma-in-General-Science: Capacitors

First access: Wednesday, 21 September 2011, 10:18 PM (2 days 19 h)

Last access: Wednesday, 21 September 2011, 10:18 PM (2 days 19 h)

Report:

- Physics: Capacitors
 - ■ ✓ Capacitors
 - ■ **Status:** completed
 - ✓ Capacitance
 - ■ **Status:** completed
 - ✓ The time constant
 - ■ **Status:** completed
 - ✓ Discharging capacitors
 - ■ **Status:** completed

Diploma-in-General-Science: Converting AC to DC

First access: Wednesday, 21 September 2011, 10:18 PM (2 days 19 h)

Last access: Wednesday, 21 September 2011, 10:19 PM (2 days 19 h)

Report:

- Physics: Converting AC to DC
 - ■ ✓ Converting AC to DC: half-wave rectification
 - ■ **Status:** completed
 - ✓ Converting AC electricity into DC electricity: smoothing
 - ■ **Status:** completed

Diploma-in-General-Science: Transducers

First access: Wednesday, 21 September 2011, 10:19 PM (2 days 19 h)

Last access: Wednesday, 21 September 2011, 10:19 PM (2 days 19 h)

Report:

- Physics: Transducers
 - ■ ✓ Transducers: light-dependent resistors, LDRs
 - ■ **Status:** completed
 - ✓ Transducers: worked examples
 - ■ **Status:** completed
 - ✓ Transducers: thermistors
 - ■ **Status:** completed
 - ✓ Transducers: light-emitting diodes, LEDs
 - ■ **Status:** completed
 - ✓ Worked example: LEDs
 - ■ **Status:** completed

Diploma-in-General-Science: Exploring sound

First access: Wednesday, 21 September 2011, 10:20 PM (2 days 19 h)

Last access: Wednesday, 21 September 2011, 10:29 PM (2 days 18 h)

Report:

- Physics: Exploring sound
- - Introduction to Sound
 - **Status:** completed
 - Wave nature of sound
 - **Status:** completed
 - Categories of waves
 - **Status:** completed
 - Transverse versus Longitudinal waves
 - **Status:** completed
 - Sound is a longitudinal wave
 - **Status:** completed
 - Creating sound waves
 - **Status:** completed
 - Representing sound waves
 - **Status:** completed
 - Period, frequency and pitch
 - **Status:** completed
 - Representing sound waves with displacement graphs
 - **Status:** completed

 **Diploma-in-General-Science: [Sound - Standing waves](#)**

First access: Wednesday, 21 September 2011, 10:30 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:30 PM (2 days 18 h)

Report:

- Physics: Sound, standing waves
- - Standing waves
 - **Status:** completed
 - Standing waves in strings
 - **Status:** completed
 - Standing waves in air columns
 - **Status:** completed
 - Open-end air columns
 - **Status:** completed
 - Closed-end pipes
 - **Status:** completed

 **Diploma-in-General-Science: [The wave equation](#)**

First access: Wednesday, 21 September 2011, 10:30 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:31 PM (2 days 18 h)

Report:

- Physics: The wave equation
- - Worked examples: the wave equation
 - **Status:** completed
 - The reflection, transmission and absorption of sound
 - **Status:** completed

 **Diploma-in-General-Science: [Sound diffraction](#)**

First access: Wednesday, 21 September 2011, 10:31 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:31 PM (2 days 18 h)

Report:

- Physics: Sound diffraction
 - ■ ✓ Diffraction
 - ■ **Status:** completed
 - ✓ The superposition of waves
 - ■ **Status:** completed
 - ✓ Diffraction and interference of sound waves from two sources
 - ■ **Status:** completed

📁 Diploma-in-General-Science: Intensity of sound

First access: Wednesday, 21 September 2011, 10:32 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:33 PM (2 days 18 h)

Report:

- Physics: The intensity of sound
 - ■ ✓ Amplitude, loudness and intensity
 - ■ **Status:** completed
 - ✓ Intensity versus distance from a source
 - ■ **Status:** completed
 - ✓ Intensity and the decibel scale
 - ■ **Status:** completed
 - ✓ The response of the ear to different frequencies
 - ■ **Status:** completed
 - ✓ Acoustic power
 - ■ **Status:** completed
 - ✓ Diffraction
 - ■ **Status:** completed

📁 Diploma-in-General-Science: Speed of sound

First access: Wednesday, 21 September 2011, 10:33 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:33 PM (2 days 18 h)

Report:

- Physics: The speed of sound
 - ■ ✓ The speed of sound
 - ■ **Status:** completed
 - ✓ Worked examples: the speed of sound
 - ■ **Status:** completed
 - ✓ Example of the speed of sound
 - ■ **Status:** completed
 - ✓ Activity - solid sound-carriers
 - ■ **Status:** completed

📁 Diploma-in-General-Science: Motion: Normal reaction

First access: Wednesday, 21 September 2011, 10:34 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:35 PM (2 days 18 h)

Report:

- Motion, normal reaction
 - ■ ✓ Normal reaction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01

- Example showing normal reaction
 - **Status:** completed
 - **Total Time:** 00:00:02
- Normal reaction with two points of contact
 - **Status:** completed
 - **Total Time:** 00:00:01
- Normal reaction during rebound
 - **Status:** completed
 - **Total Time:** 00:00:02
- Deformation forces
 - **Status:** completed
 - **Total Time:** 00:00:05

Diploma-in-General-Science: Motion: Force and acceleration

First access: Wednesday, 21 September 2011, 10:35 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:37 PM (2 days 18 h)

Report:

- Force and acceleration
 - ■ Net force
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Newton's Laws
 - **Status:** completed
 - **Total Time:** 00:00:05
 - Summary - forces and motion
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Friction
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Air resistance
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Weight
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Applying Newton's Laws
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Horizontal forces
 - **Status:** completed
 - **Total Time:** 00:00:08

Diploma-in-General-Science: Motion: Collisions

First access: Wednesday, 21 September 2011, 10:37 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:37 PM (2 days 18 h)

Report:

- Motion: collisions
 - ■ Collisions - conservation of momentum and energy
 - **Status:** completed
 - **Total Time:** 00:00:03
 - The duration of a collision
 - **Status:** completed
 - **Total Time:** 00:00:04

Diploma-in-General-Science: Motion: Constant and vertical circular motion

First access: Wednesday, 21 September 2011, 10:38 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:39 PM (2 days 18 h)

Report:

- Constant and vertical circular motion
- Constant and vertical circular motion
 - **Status:** completed
 - **Total Time:** 00:00:08
 - The centripetal force can be friction
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Vertical circular motion
 - **Status:** completed
 - **Total Time:** 00:00:16
 - Roller coaster example
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Car on a hump example
 - **Status:** completed
 - **Total Time:** 00:00:01
 - Calculations when only part of the motion is circular
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Roller coaster example
 - **Status:** completed
 - **Total Time:** 00:00:09

 **Diploma-in-General-Science: Motion: Projectile motion**

First access: Wednesday, 21 September 2011, 10:40 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:40 PM (2 days 18 h)

Report:

- Projectile motion
- Projectile motion without air resistance
 - **Status:** completed
 - **Total Time:** 00:00:06
 - Calculations with projectile motion
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Calculations with projectile motion
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Projectile motion with and without air resistance
 - **Status:** completed
 - **Total Time:** 00:00:07
 - Projectile motion with air resistance
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Terminal velocity
 - **Status:** completed
 - **Total Time:** 00:00:14

 **Diploma-in-General-Science: Motion: Momentum and impulse**

First access: Wednesday, 21 September 2011, 10:41 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:41 PM (2 days 18 h)

Report:

- motion: momentum and impulse
- Momentum

- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Impulse
- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Impulse, force and time
- ■ **Status:** completed
■ **Total Time:** 00:00:03
- ✓ Conservation of momentum
- ■ **Status:** completed
■ **Total Time:** 00:00:08

📖 Diploma-in-General-Science: **Motion: Work energy and power**

First access: Wednesday, 21 September 2011, 10:41 PM (2 days 18 h)

Last access: Wednesday, 21 September 2011, 10:42 PM (2 days 18 h)

Report:

- Motion: work energy and power
 - ■ ✓ Kinetic energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Gravitational potential energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Example calculation using gravitational potential energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Elastic potential energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Calculating elastic potential energy from graphs
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Work, energy and power
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Conservation of energy
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Conservation of energy in springs
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Work
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Power
 - ■ **Status:** completed
■ **Total Time:** 00:00:06

📖 Diploma-in-General-Science: **Motion: Orbits**

First access: Thursday, 22 September 2011, 07:38 PM (1 day 21 h)

Last access: Saturday, 24 September 2011, 04:51 PM (30 m 47 secs)

Report:

- Orbits
 - ■ ✓ Orbits
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Circular and elliptical orbits

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Velocity of satellites
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Sample calculation: satellite speed
- ■ **Status:** completed
■ ■ **Total Time:** 00:09:38
- ✓ Introducing Kepler's laws
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:27
- ✓ Challenge question: Kepler's law
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
- ✓ Acceleration of satellites
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:12

 **Diploma-in-General-Science: Motion: Formulae for calculating motion in one and two dimensions**

First access: Saturday, 24 September 2011, 04:51 PM (30 m 25 secs)

Last access: Saturday, 24 September 2011, 04:52 PM (29 m 34 secs)

Report:

- Motion, formulae for calculating motion in one and two dimensions
 - ■ ✓ Displacement and distance
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:07
 - ✓ Velocity and speed
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Acceleration
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Equations of motion for constant acceleration in one dimension
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ The gradient of a position-time graph
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ The gradient of a velocity-time graph
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ The area under an acceleration - time graph
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:02
 - ✓ Calculating motion in two dimensions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Calculation using acceleration
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:06

 **Diploma-in-General-Science: Introduction to gravity**

First access: Saturday, 24 September 2011, 04:52 PM (29 m 13 secs)

Last access: Saturday, 24 September 2011, 04:52 PM (29 m 13 secs)

Report:

- Introduction to gravity
 - ■ ✓ Gravity




- ■ **Status:** completed
- ■ **Total Time:** 00:00:04

Diploma-in-General-Science: Gravity: Weightlessness

First access: Saturday, 24 September 2011, 04:53 PM (29 m)

Last access: Saturday, 24 September 2011, 04:53 PM (28 m 31 secs)

Report:





- Gravity: weightlessness
- ■  Weightlessness
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 -  Apparent weight
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
 -  Calculating apparent weight
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-General-Science: Newton's Law of Universal Gravitation

First access: Saturday, 24 September 2011, 04:53 PM (28 m 14 secs)

Last access: Saturday, 24 September 2011, 04:54 PM (27 m 17 secs)

Report:



- Newton's Law of Universal Gravitation
- ■  Gravitational force
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
 -  The gravitational field
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 -  Gravity and weight
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Challenge question on gravitational field strength
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
 -  Acceleration due to gravity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:29

Diploma-in-General-Science: Energy transfers in space

First access: Saturday, 24 September 2011, 04:55 PM (26 m 39 secs)

Last access: Saturday, 24 September 2011, 04:55 PM (26 m 15 secs)

Report:

- Energy transfers in space
- ■  Energy transfers in space
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 -  Graphical representation of energy transfers
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16


Diploma-in-General-Science: Magnets and magnetism

First access: Saturday, 24 September 2011, 04:56 PM (26 m 2 secs)

Last access: Saturday, 24 September 2011, 04:57 PM (24 m 26 secs)

Report:

- Physics: Magnets and magnetism
 - Magnets and magnetic fields
 - **Status:** completed
 - Magnetic fields
 - **Status:** completed
 - Magnetic field of the earth
 - **Status:** completed
 - Currents and magnetism
 - **Status:** completed
 - Moving charges in magnetic fields
 - **Status:** completed
 - Forces on current-carrying wires
 - **Status:** completed
 - Electric motors
 - **Status:** completed
 - The DC motor and the split-ring commutator
 - **Status:** completed
 - AC motors
 - **Status:** completed
 - Electromagnetic induction
 - **Status:** completed
 - Generators
 - **Status:** completed

 **Diploma-in-General-Science: Structures**

First access: Saturday, 24 September 2011, 04:58 PM (24 m 2 secs)

Last access: Saturday, 24 September 2011, 04:58 PM (23 m 12 secs)

Report:

- Structures
 - Compression and tension
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Torque
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Torque when forces act at an angle
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Static equilibrium
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Rules for analysing structures
 - **Status:** completed
 - **Total Time:** 00:00:00
 - Structures and Materials
 - **Status:** completed
 - **Total Time:** 00:00:06

 **Diploma-in-General-Science: Materials**

First access: Saturday, 24 September 2011, 04:59 PM (22 m 56 secs)

Last access: Saturday, 24 September 2011, 05:00 PM (21 m 49 secs)

Report:

- Materials
 - ■ ✓ Structures and materials
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Stress
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Strength
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Strain
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Young's modulus relates stress and strain
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Stress versus strain graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:00
 - ✓ Strain energy per unit volume
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Toughness
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

Diploma-in-General-Science: Hooke's Law

First access: Saturday, 24 September 2011, 05:00 PM (21 m 14 secs)

Last access: Saturday, 24 September 2011, 05:01 PM (21 m)

Report:

- Hooke's Law
 - ■ ✓ Hooke's Law
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:23
 - ✓ Limitations of Hooke's Law
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

Diploma-in-General-Science: The wave like nature of light

First access: Saturday, 24 September 2011, 05:01 PM (20 m 40 secs)

Last access: Saturday, 24 September 2011, 05:03 PM (18 m 57 secs)

Report:

- The wave like nature of light
 - ■ ✓ Ideas about light and matter
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ The wave equation for light
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Example calculation using the wave equation for light
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Double slit interference
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ The diffraction of light
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02

- ■ **Status:** completed
■ **Total Time:** 00:00:03
- ✓ Amount of diffraction
- ■ **Status:** completed
■ **Total Time:** 00:00:02
- ✓ Diffraction patterns
- ■ **Status:** completed
■ **Total Time:** 00:00:04
- ✓ Explanation of diffraction patterns
- ■ **Status:** completed
■ **Total Time:** 00:00:07
- ✓ Momentum of photons
- ■ **Status:** completed
■ **Total Time:** 00:00:09
- ✓ Wave/particle theory of light
- ■ **Status:** completed
■ **Total Time:** 00:00:14
- ✓ Matter waves
- ■ **Status:** completed
■ **Total Time:** 00:00:25

Diploma-in-General-Science: **The photoelectric effect**

First access: Saturday, 24 September 2011, 05:03 PM (18 m 45 secs)

Last access: Saturday, 24 September 2011, 05:05 PM (16 m 21 secs)

Report:

- The photoelectric effect
- ■ ✓ The photoelectric effect experiment
 - ■ **Status:** completed
■ **Total Time:** 00:00:01
 - ✓ Results of the photoelectric effect experiment
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ The photoelectric effect: stopping voltage
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ The photoelectric effect: varying the frequency of the light
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ The photoelectric effect: varying the frequency of the light
 - ■ **Status:** completed
■ **Total Time:** 00:00:05
 - ✓ Varying the intensity of the light
 - ■ **Status:** completed
■ **Total Time:** 00:00:30
 - ✓ Can the wave model explain the photoelectric effect
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Particle explanation of the photoelectric effect
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ How photons explain the photoelectric effect
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ How photons explain the photoelectric effect
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Different metals
 - ■ **Status:** completed
■ **Total Time:** 00:00:42

Diploma-in-General-Science: **Emission and absorption spectra**

First access: Saturday, 24 September 2011, 05:06 PM (16 m 6 secs)

Last access: Saturday, 24 September 2011, 05:06 PM (15 m 40 secs)

Report:

- Emission and absorption spectra
- Emission and absorption spectra
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Electron energy levels
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Absorption spectra
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Emission spectra
 - **Status:** completed
 - **Total Time:** 00:00:06

Diploma-in-General-Science: **Electric fields and the electron**

First access: Saturday, 24 September 2011, 05:06 PM (15 m 15 secs)

Last access: Saturday, 24 September 2011, 05:07 PM (14 m 33 secs)

Report:

- Electric fields and the electron
- Light and matter: electric fields and the electron
 - **Status:** completed
 - **Total Time:** 00:00:12
 - Electric fields and the electron
 - **Status:** completed
 - **Total Time:** 00:00:01
 - Electric fields and the electron
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Electric fields and the electron: fields between charged plates
 - **Status:** completed
 - **Total Time:** 00:00:00
 - Electric force
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Energy changes for electron moving between plates
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Deflection of an electron beam
 - **Status:** completed
 - **Total Time:** 00:00:05

Diploma-in-General-Science: **Assessment**

First access: Sunday, 15 May 2011, 02:06 PM (132 days 3 h)

Last access: Sunday, 15 May 2011, 02:06 PM (132 days 3 h)

Report:

- Diploma in General Science Assessment
- Diploma in General Science Assessment
 - **Status:** passed
 - **Score:** 90% (PASSED)
 - **Total Time:** 01:06:25

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