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Diploma in Mathematics Checklist

Diploma in Mathematics

Progress Indicator

Name: Yann GEFROTIN
 Progress: **100.00%** 100%
 Total Time: **02:47:15**
 Points: **10**
 Last Access: **2011-07-31 10:36:06**
 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-Mathematics: Geometry

First access: Sunday, 31 July 2011, 09:37 AM (1 h 58 m)

Last access: Sunday, 31 July 2011, 09:37 AM (1 h 58 m)

Report:

- Geometry
 - Intersection of half planes
 - **Status:** completed
 - **Total Time:** 00:00:18
 - Finding maximum and minimum values
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Solving linear and programming problems
 - **Status:** completed
 - **Total Time:** 00:00:18
 - Solving linear programming problems - example
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Example part (b)
 - **Status:** completed
 - **Total Time:** 00:00:16

Diploma-in-Mathematics: Introduction to triangles

First access: Sunday, 31 July 2011, 09:55 AM (1 h 40 m)

Last access: Sunday, 31 July 2011, 09:56 AM (1 h 40 m)

Report:

- Begin Training
 - Triangles
 - Introduction to triangles
 - **Status:** completed

- **Total Time:** 00:00:10
 - ✓ Triangle letter names
- **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Equilateral triangles
- **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Isosceles triangles
- **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Scalene triangles
- **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Acute-angled triangles
- **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Right-angled triangles
- **Status:** completed
 - **Total Time:** 00:00:15
 - ✓ Obtuse-angled triangles
- **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ Quiz on triangle names
- **Status:** completed
 - **Total Time:** 00:00:12

Diploma-in-Mathematics: Angle types

First access: Sunday, 31 July 2011, 09:56 AM (1 h 39 m)

Last access: Sunday, 31 July 2011, 09:56 AM (1 h 39 m)

Report:

- Geometry
 - ■ Angle types
 - ✓ Angle types
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Angles in a circle
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Angles as numbers
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Measuring angles with a protractor
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Complementary and supplementary angles
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Angles in circles, rectangles and triangles
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Vertically opposite angles
 - **Status:** completed
 - **Total Time:** 00:00:09

Diploma-in-Mathematics: Angle sizes and sums in triangles

First access: Sunday, 31 July 2011, 09:57 AM (1 h 39 m)

Last access: Sunday, 31 July 2011, 09:57 AM (1 h 38 m)

Report:

- Begin Training
 - ■ Angle sizes and sums in triangles
 - ■ ✓ Angle sizes and sums in triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ■ ✓ Angle sum demonstration
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ■ ✓ Practice questions on sum of angles in a triangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Quiz on sum of angles in a triangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■ ✓ Exterior angles of a triangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■ ✓ Quiz on exterior angles of triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14

Diploma-in-Mathematics: Triangles - Similarity and congruence

First access: Sunday, 31 July 2011, 09:57 AM (1 h 38 m)

Last access: Sunday, 31 July 2011, 09:57 AM (1 h 38 m)

Report:

- Begin Training
 - ■ Triangles, similarity and congruence
 - ■ ✓ Triangles - similarity and congruence
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ■ ✓ Similar triangles demonstrations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Quiz on similar triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Congruent triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■ ✓ Quiz on congruent triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

Diploma-in-Mathematics: Corresponding angles

First access: Sunday, 31 July 2011, 09:58 AM (1 h 38 m)

Last access: Sunday, 31 July 2011, 09:58 AM (1 h 37 m)

Report:

- Begin Training
 - ■ Angles and parallel lines
 - ■ ✓ Corresponding angles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ■ ✓ Parallel lines
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ■ ✓ Alternate and co-interior angles

- ■ **Status:** completed
- ■ **Total Time:** 00:00:09
- ✓ General angles quiz
- ■ **Status:** completed
- ■ **Total Time:** 00:00:08
- ✓ Quiz on angles and parallel lines
- ■ **Status:** completed
- ■ **Total Time:** 00:00:07

 **Diploma-in-Mathematics: Introduction to quadrilaterals**

First access: Sunday, 31 July 2011, 09:58 AM (1 h 37 m)

Last access: Sunday, 31 July 2011, 09:59 AM (1 h 36 m)

Report:

- Begin Training
- ■ Quadrilaterals
 - ■ ✓ Introduction to quadrilaterals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Equal sides, equal angles and parallel lines
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Properties of a square
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Properties of a rectangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Properties of a parallelogram
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Properties of a rhombus
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Properties of a trapezium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Properties of a kite
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Properties of basic quadrilaterals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Quiz on properties of quadrilaterals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Properties of an isosceles trapezium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Properties of a rectangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Properties of a parallelogram
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Properties of a rhombus
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Properties of a trapezium
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

- ✓ Properties of an isosceles trapezium
- ■ **Status:** completed
■ **Total Time:** 00:00:12
- ✓ Properties of a kite
- ■ **Status:** completed
■ **Total Time:** 00:00:09
- ✓ Properties of basic quadrilaterals
- ■ **Status:** completed
■ **Total Time:** 00:00:12

📖 Diploma-in-Mathematics: [Quadrilaterals](#)

First access: Sunday, 31 July 2011, 09:59 AM (1 h 36 m)

Last access: Sunday, 31 July 2011, 09:59 AM (1 h 36 m)

Report:

- Begin Training
- ■ Angle sizes in quadrilaterals
 - ■ ✓ Quadrilaterals angle sum
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Quadrilaterals sum of exterior angles
 - ■ **Status:** completed
■ **Total Time:** 00:00:04
 - ✓ Quiz on angles in quadrilaterals
 - ■ **Status:** completed
■ **Total Time:** 00:00:03

📖 Diploma-in-Mathematics: [Introduction to polygons](#)

First access: Sunday, 31 July 2011, 10:00 AM (1 h 35 m)

Last access: Sunday, 31 July 2011, 10:00 AM (1 h 35 m)

Report:

- Begin Training
- ■ Polygon properties
 - ■ ✓ Introduction to polygons
 - ■ **Status:** completed
■ **Total Time:** 00:00:05
 - ✓ What are polygons?
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Regular polygons
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ Naming of polygon types
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ Rotational symmetry in polygons
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ Line symmetry in polygons
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Quiz on polygons
 - ■ **Status:** completed
■ **Total Time:** 00:00:08

📖 Diploma-in-Mathematics: [Polygons](#)

First access: Sunday, 31 July 2011, 10:00 AM (1 h 35 m)

Last access: Sunday, 31 July 2011, 10:01 AM (1 h 35 m)

Report:

- Begin Training
- ■ Angle sizes in polygons
 - ■ ✓ Polygon interior angle sum
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ■ ✓ Regular polygon interior angle sizes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ■ ✓ Sum of exterior angles of polygons
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ■ ✓ Regular polygon exterior angle sizes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Quiz on polygon angle sizes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

 **Diploma-in-Mathematics: Geometrical solids**

First access: Sunday, 31 July 2011, 10:01 AM (1 h 34 m)

Last access: Sunday, 31 July 2011, 10:01 AM (1 h 34 m)

Report:

- Begin Training
- ■ Geometrical solids
 - ■ ✓ Geometrical solids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ■ ✓ Prisms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ■ ✓ Prisms quiz
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ■ ✓ Pyramids and cones
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Spheres, hemispheres and toruses
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■ ✓ Quiz on geometrical solids
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

 **Diploma-in-Mathematics: Conics (ellipses and hyperbolae)**

First access: Sunday, 31 July 2011, 10:01 AM (1 h 34 m)

Last access: Sunday, 31 July 2011, 10:01 AM (1 h 34 m)

Report:

- Advanced Mathematics: Conics (ellipses and hyperbolae)
- ■ ✓ Graphs of Ellipses
 - ■ **Status:** completed
 - ■ ✓ Examples
 - ■ **Status:** completed

- Graphs of Hyperbolae
- **Status:** completed
- Example 1
- **Status:** completed
- Example 2
- **Status:** completed
- Example 3
- **Status:** completed
- Example 4
- **Status:** completed
- Transformations of hyperbolae
- **Status:** completed
- Translations
- **Status:** completed

Diploma-in-Mathematics: **Transformations**

First access: Sunday, 31 July 2011, 10:02 AM (1 h 33 m)

Last access: Sunday, 31 July 2011, 10:03 AM (1 h 33 m)

Report:

- Begin Training
- ■ Transformations
 - Introduction to transformations
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Translations, reflections and rotations
 - **Status:** completed
 - **Total Time:** 00:00:15
 - Translations and coordinate geometry
 - **Status:** completed
 - **Total Time:** 00:00:16
 - Translations and coordinate geometry quiz
 - **Status:** completed
 - **Total Time:** 00:00:18
 - Reflections
 - **Status:** completed
 - **Total Time:** 00:00:15
 - Reflections
 - **Status:** completed
 - **Total Time:** 00:00:14
 - Reflections and coordinate geometry
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Rotations
 - **Status:** completed
 - **Total Time:** 00:00:15
 - Rotations and coordinate geometry
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Quiz on transformations
 - **Status:** completed
 - **Total Time:** 00:00:13

Diploma-in-Mathematics: **Summarising data**

First access: Sunday, 31 July 2011, 10:03 AM (1 h 32 m)

Last access: Sunday, 31 July 2011, 10:03 AM (1 h 32 m)

Report:

- Begin Training
 - ■ Collecting and analysing data
 - ■ ✓ Summarising data - overview
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■ ✓ Mode
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 - ■ ✓ Median
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ■ ✓ Mode, mean, median
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ■ ✓ Comparing mode, mean, median
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ■ ✓ Range of data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Inter-quartile range
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Review - summarising data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-Mathematics: [Frequency and graphs](#)

First access: Sunday, 31 July 2011, 10:04 AM (1 h 31 m)

Last access: Sunday, 31 July 2011, 10:04 AM (1 h 31 m)

Report:

- Begin Training
 - ■ Frequency and graphs
 - ■ ✓ Frequency and graphs - overview
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Nominal data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Discrete data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■ ✓ Continuous data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ■ ✓ Frequency tables with nominal data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ■ ✓ Frequency tables with discrete data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ■ ✓ Frequency tables - discrete data and summary statistics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Mean from frequency tables - discrete data
 - ■ **Status:** completed

- **Total Time:** 00:00:10
- ✓ Interpreting column graphs
- **Status:** completed
- **Total Time:** 00:00:10
- ✓ Family size cumulative frequency
- **Status:** completed
- **Total Time:** 00:00:09

📖 Diploma-in-Mathematics: **Creating a frequency table from data**

First access: Sunday, 31 July 2011, 10:04 AM (1 h 31 m)

Last access: Sunday, 31 July 2011, 10:05 AM (1 h 30 m)

Report:

- Begin Training
- ■ Frequency and graphs
 - ■ ✓ Frequency and graphs - overview
 - **Status:** completed
 - **Total Time:** 00:00:06
 - ✓ Nominal data
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Discrete data
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Continuous data
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Frequency tables with nominal data
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Frequency tables with discrete data
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ Frequency tables - discrete data and summary statistics
 - **Status:** completed
 - **Total Time:** 00:00:14
 - ✓ Mean from frequency tables - discrete data
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Interpreting column graphs
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Family size cumulative frequency
 - **Status:** completed
 - **Total Time:** 00:00:10

📖 Diploma-in-Mathematics: **Graphs of all kinds**

First access: Sunday, 31 July 2011, 10:05 AM (1 h 30 m)

Last access: Sunday, 31 July 2011, 10:06 AM (1 h 29 m)

Report:

- Chance and Data
- ■ Graphs
 - ■ ✓ Graphs of all kinds
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Ice cream pictograph
 - **Status:** completed
 - **Total Time:** 00:00:13

- ✓ Column and bar graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
- ✓ Examples of column graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- ✓ Pie charts
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
- ✓ Examples of pie charts
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Line graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
- ✓ Temperature line graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- ✓ Types of graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
- ✓ Interpreting column graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
- ✓ Manchester flights bar graph
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
- ✓ Movie line graph
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
- ✓ Interpretation of a sports pie graph
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
- ✓ Review - graphs
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

Diploma-in-Mathematics: Introduction to probability

First access: Sunday, 31 July 2011, 10:06 AM (1 h 29 m)

Last access: Sunday, 31 July 2011, 10:06 AM (1 h 29 m)

Report:

- Begin Training
- ■ Introduction to probability
 - ■ ✓ Introduction to probability
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Probability words
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Words describing chance
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Finding probabilities theoretically
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Probability with equally likely outcomes
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-Mathematics: Odds and probability

First access: Sunday, 31 July 2011, 10:07 AM (1 h 28 m)

Last access: Sunday, 31 July 2011, 10:07 AM (1 h 28 m)

Report:

- Begin Training
- ■ Gambling, odds and probability
 - ■ ✓ Odds and probability
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ■ ✓ Odds
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Odds on
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Odds and probability
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Fair or unfair?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Deciding fairness using probability
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

 **Diploma-in-Mathematics: Probability and relative frequency**

First access: Sunday, 31 July 2011, 10:08 AM (1 h 28 m)

Last access: Sunday, 31 July 2011, 10:08 AM (1 h 27 m)

Report:

- Begin Training
- ■ Probability
 - ■ ✓ Probability and relative frequency
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Short-run coin tossing
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Short-run dice rolling
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■ ✓ Predicting from past experience
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ■ ✓ Towards probability with coins
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■ ✓ Towards probability with dice
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■ ✓ Probability as long-run relative frequency
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

 **Diploma-in-Mathematics: Discrete random variables**

First access: Sunday, 31 July 2011, 10:08 AM (1 h 27 m)

Last access: Sunday, 31 July 2011, 10:08 AM (1 h 27 m)

Report:

- Discrete random variables
- ■ ✓ Random variables
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Discrete probability distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ The mean and variance of a discrete random variable
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ Standard deviation as a measure of spread
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-Mathematics: Normal distribution

First access: Sunday, 31 July 2011, 10:09 AM (1 h 27 m)

Last access: Sunday, 31 July 2011, 10:09 AM (1 h 26 m)

Report:

- Normal distribution
- ■ ✓ The normal curve
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Continuous random variables and the normal distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Calculation of probabilities for a normal distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Approximating the binomial distribution with normal distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

Diploma-in-Mathematics: Binomial distribution

First access: Sunday, 31 July 2011, 10:09 AM (1 h 26 m)

Last access: Sunday, 31 July 2011, 10:09 AM (1 h 26 m)

Report:

- Binomial distribution
- ■ ✓ Binomial probability function and distribution
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ The number of successes in a given number of trials
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ The effect of changing the parameter p
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ The effect of changing the parameter n
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ The mean and variance of a binomial random variable
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09


Diploma-in-Mathematics: Hypergeometric distribution

First access: Sunday, 31 July 2011, 10:09 AM (1 h 26 m)

Last access: Sunday, 31 July 2011, 10:10 AM (1 h 25 m)

Report:

- Hypergeometric distribution
- Sampling without replacement
 - **Status:** completed
 - **Total Time:** 00:00:06
 - The mean of a hypergeometric random variable
 - **Status:** completed
 - **Total Time:** 00:00:09
 - The variance of a hypergeometric random variable
 - **Status:** completed
 - **Total Time:** 00:00:11
 - The mean and variance of a hypergeometric random variable example
 - **Status:** completed
 - **Total Time:** 00:00:12
 - The mean and variance of a hypergeometric random variable example 2
 - **Status:** completed
 - **Total Time:** 00:00:11
 - The formula for calculating probabilities
 - **Status:** completed
 - **Total Time:** 00:00:10
 - Calculating probabilities
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Relationship between hypergeometric and binomial distributions
 - **Status:** completed
 - **Total Time:** 00:00:08

 **Diploma-in-Mathematics: Univariate data**

First access: Sunday, 31 July 2011, 10:10 AM (1 h 25 m)

Last access: Sunday, 31 July 2011, 10:10 AM (1 h 25 m)

Report:

- Univariate data
- Introduction
 - **Status:** completed
 - **Total Time:** 00:00:04
- Types of data
 - **Status:** completed
 - **Total Time:** 00:00:05
- Types of univariate data
 - **Status:** completed
 - **Total Time:** 00:00:06
- Numerical data
 - **Status:** completed
 - **Total Time:** 00:00:05

 **Diploma-in-Mathematics: Univariate data 2**

First access: Sunday, 31 July 2011, 10:10 AM (1 h 25 m)

Last access: Sunday, 31 July 2011, 10:11 AM (1 h 25 m)

Report:

- Univariate data 2
- Displaying data
 - **Status:** completed
 - **Total Time:** 00:00:01
- Bar graphs
 - **Status:** completed

- **Total Time:** 00:00:05
- ✓ Stem and leaf diagrams 1
- **Status:** completed
- **Total Time:** 00:00:04
- ✓ Stem and leaf diagrams 2
- **Status:** completed
- **Total Time:** 00:00:05

📁 Diploma-in-Mathematics: **Bivariate data**

First access: Sunday, 31 July 2011, 10:11 AM (1 h 24 m)

Last access: Sunday, 31 July 2011, 10:11 AM (1 h 24 m)

Report:

- Bivariate data
 - ■ ✓ Introduction
 - **Status:** completed
 - **Total Time:** 00:00:05
 - ✓ Dependent and independent variables
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ Percentaged tables
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Parallel boxplots
 - **Status:** completed
 - **Total Time:** 00:00:09
 - ✓ Back-to-back stemplots
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Graphical display of bivariate data – in summary
 - **Status:** completed
 - **Total Time:** 00:00:07

📁 Diploma-in-Mathematics: **Summary statistics**

First access: Sunday, 31 July 2011, 10:12 AM (1 h 24 m)

Last access: Sunday, 31 July 2011, 10:12 AM (1 h 23 m)

Report:

- Summary statistics
 - ■ ✓ Summary statistics
 - **Status:** completed
 - **Total Time:** 00:00:07
 - ✓ The mean
 - **Status:** completed
 - **Total Time:** 00:00:10
 - ✓ The median – definition
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Cumulative frequency
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Cumulative frequency graph
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ The mode
 - **Status:** completed
 - **Total Time:** 00:00:16
 - ✓ Advantages and disadvantages of the mean
 - **Status:** completed
 - **Total Time:** 00:00:14

- ✓ The median for even data sets
- ■ **Status:** completed
■ **Total Time:** 00:00:14
- ✓ Advantages and disadvantages of the median
- ■ **Status:** completed
■ **Total Time:** 00:00:14
- ✓ The mean - example
- ■ **Status:** completed
■ **Total Time:** 00:00:13
- ✓ The median - example
- ■ **Status:** completed
■ **Total Time:** 00:00:11

Diploma-in-Mathematics: Range

First access: Sunday, 31 July 2011, 10:12 AM (1 h 23 m)

Last access: Sunday, 31 July 2011, 10:13 AM (1 h 23 m)

Report:

- Range
 - ■ ✓ The soccer activity
 - ■ **Status:** completed
■ **Total Time:** 00:00:05
 - ✓ The range
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ The interquartile range
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ The interquartile range - example 1
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ The interquartile range - example 2
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ The standard deviation
 - ■ **Status:** completed
■ **Total Time:** 00:00:13
 - ✓ Boxplots
 - ■ **Status:** completed
■ **Total Time:** 00:00:13
 - ✓ Boxplots - example
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ Using your calculator
 - ■ **Status:** completed
■ **Total Time:** 00:00:11

Diploma-in-Mathematics: Symmetry

First access: Sunday, 31 July 2011, 10:13 AM (1 h 22 m)

Last access: Sunday, 31 July 2011, 10:13 AM (1 h 22 m)

Report:

- Symmetry
 - ■ ✓ Symmetry and skew of a distribution
 - ■ **Status:** completed
■ **Total Time:** 00:00:05
 - ✓ Negative skew
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Positive skew

- ■ **Status:** completed
■ **Total Time:** 00:00:10
- ✓ Probability intervals
- ■ **Status:** completed
■ **Total Time:** 00:00:10
- ✓ Probability interval examples
- ■ **Status:** completed
■ **Total Time:** 00:00:09
- ✓ Comparing sample and population
- ■ **Status:** completed
■ **Total Time:** 00:00:08

📖 Diploma-in-Mathematics: **Calculating a seasonal index**

First access: Sunday, 31 July 2011, 10:13 AM (1 h 22 m)

Last access: Sunday, 31 July 2011, 10:14 AM (1 h 22 m)

Report:

- Calculating a seasonal index
- ■ ✓ Calculating a seasonal index
 - ■ **Status:** completed
■ **Total Time:** 00:00:06
 - ✓ Interpreting seasonal indices
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Seasonal movements
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Deseasonalising the data
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ Deseasonalising the data – example
 - ■ **Status:** completed
■ **Total Time:** 00:00:06

📖 Diploma-in-Mathematics: **Coefficient**

First access: Sunday, 31 July 2011, 10:14 AM (1 h 21 m)

Last access: Sunday, 31 July 2011, 10:14 AM (1 h 21 m)

Report:

- Coefficient
- ■ ✓ Scatterplots
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Scatterplots: using your calculator
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ Pearson's product moment correlation coefficient, r
 - ■ **Status:** completed
■ **Total Time:** 00:00:12
 - ✓ Calculating r
 - ■ **Status:** completed
■ **Total Time:** 00:00:11
 - ✓ The coefficient of determination
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Practice question
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Strength of association

- ■ **Status:** completed
- ■ **Total Time:** 00:00:08

Diploma-in-Mathematics: Regression line

First access: Sunday, 31 July 2011, 10:14 AM (1 h 21 m)

Last access: Sunday, 31 July 2011, 10:15 AM (1 h 20 m)

Report:






- Regression line
 - ■  Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 -  Finding the equation of a regression line
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Interpretation of slope and intercept
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 -  Practice question
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 -  The three-median regression line
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 -  Using your calculator
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 -  The three-median regression example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 -  The three-median regression practice questions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 -  The least squares regression line
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Making predictions from a regression line
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12

Diploma-in-Mathematics: Non-linear data

First access: Sunday, 31 July 2011, 10:15 AM (1 h 20 m)

Last access: Sunday, 31 July 2011, 10:15 AM (1 h 20 m)

Report:

- Non-linear data
 - ■  Non-linear data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Square transformation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 -  Log transformations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 -  Reciprocal transformation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 -  Example 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

- ■ **Status:** completed
- ■ **Total Time:** 00:00:07
- ✓ Example 2
- ■ **Status:** completed
- ■ **Total Time:** 00:00:07

📖 Diploma-in-Mathematics: Residual analysis

First access: Sunday, 31 July 2011, 10:16 AM (1 h 20 m)

Last access: Sunday, 31 July 2011, 10:16 AM (1 h 19 m)

Report:

- Residual analysis
 - ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 - ✓ Residual analysis - part 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Plotting the residuals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Residual analysis - part 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Residual analysis - part 3
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

📖 Diploma-in-Mathematics: Trends

First access: Sunday, 31 July 2011, 10:16 AM (1 h 19 m)

Last access: Sunday, 31 July 2011, 10:16 AM (1 h 19 m)

Report:

- Trends
 - ■ ✓ Trends
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Cyclic patterns
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Random patterns
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Describing patterns in time series data
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Seasonal patterns
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Smoothing a time series
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Median smoothing
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Smoothing using moving averages
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ✓ Smoothing - example 1

- ■ **Status:** completed
■ **Total Time:** 00:00:09
- ✓ Smoothing - example 2
- ■ **Status:** completed
■ **Total Time:** 00:00:12

📖 Diploma-in-Mathematics: [Arithmetic sequences](#)

First access: Sunday, 31 July 2011, 10:17 AM (1 h 18 m)

Last access: Sunday, 31 July 2011, 10:17 AM (1 h 18 m)

Report:

- Sequences and series
 - ■ ✓ Arithmetic sequences
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ Find a particular term in an arithmetic sequence
 - ■ **Status:** completed
■ **Total Time:** 00:00:17
 - ✓ How many terms in this arithmetic sequence?
 - ■ **Status:** completed
■ **Total Time:** 00:00:19
 - ✓ Show that the sequence is arithmetic
 - ■ **Status:** completed
■ **Total Time:** 00:00:20
 - ✓ Solving arithmetic sequences simultaneously
 - ■ **Status:** completed
■ **Total Time:** 00:00:19
 - ✓ Summing up arithmetic sequences
 - ■ **Status:** completed
■ **Total Time:** 00:00:17
 - ✓ Is this an arithmetic sequence?
 - ■ **Status:** completed
■ **Total Time:** 00:00:16
 - ✓ Example (b)
 - ■ **Status:** completed
■ **Total Time:** 00:00:15
 - ✓ Example (c)
 - ■ **Status:** completed
■ **Total Time:** 00:00:14
 - ✓ Example (d)
 - ■ **Status:** completed
■ **Total Time:** 00:00:08

📖 Diploma-in-Mathematics: [Arithmetic series](#)

First access: Sunday, 31 July 2011, 10:18 AM (1 h 18 m)

Last access: Sunday, 31 July 2011, 10:18 AM (1 h 18 m)

Report:









- Arithmetic series
 - ■ ✓ Arithmetic series
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Finding the sum of an arithmetic series
 - ■ **Status:** completed
■ **Total Time:** 00:00:06
 - ✓ Finding the sum of an arithmetic sequence
 - ■ **Status:** completed
■ **Total Time:** 00:00:06

Diploma-in-Mathematics: [Geometric sequences](#)

First access: Sunday, 31 July 2011, 10:18 AM (1 h 17 m)

Last access: Sunday, 31 July 2011, 10:18 AM (1 h 17 m)

Report:








- Geometric sequences
-  Geometric sequences
 - **Status:** completed
 - **Total Time:** 00:00:09
 -  Is this a geometric sequence?
 - **Status:** completed
 - **Total Time:** 00:00:11
 -  Find a term in an increasing geometric sequence
 - **Status:** completed
 - **Total Time:** 00:00:12
 -  Find a term in a decreasing geometric sequence
 - **Status:** completed
 - **Total Time:** 00:00:11
 -  Which term has that value?
 - **Status:** completed
 - **Total Time:** 00:00:01
 -  Example (b)
 - **Status:** completed
 - **Total Time:** 00:00:10
 -  Example (c)
 - **Status:** completed
 - **Total Time:** 00:00:10
 -  Example (d)
 - **Status:** completed
 - **Total Time:** 00:00:01

Diploma-in-Mathematics: [Geometric series](#)

First access: Sunday, 31 July 2011, 10:19 AM (1 h 16 m)

Last access: Sunday, 31 July 2011, 10:19 AM (1 h 16 m)

Report:

- Geometric series
-  Geometric series
 - **Status:** completed
 - **Total Time:** 00:00:05
 -  Infinite geometric series
 - **Status:** completed
 - **Total Time:** 00:00:13
 -  Find the sum of an increasing geometric sequence
 - **Status:** completed
 - **Total Time:** 00:00:13
 -  Find the sum of a decreasing geometric sequence
 - **Status:** completed
 - **Total Time:** 00:00:13
 -  How many terms until the sum exceeds 2000?
 - **Status:** completed
 - **Total Time:** 00:00:12
 -  Find the sum of an infinite geometric series
 - **Status:** completed
 - **Total Time:** 00:00:11
 -  Sum a geometric series to infinity
 - **Status:** completed
 - **Total Time:** 00:00:11

Diploma-in-Mathematics: [The binomial theorem](#)

First access: Sunday, 31 July 2011, 10:19 AM (1 h 16 m)

Last access: Sunday, 31 July 2011, 10:19 AM (1 h 16 m)

Report:

- The binomial theorem
- Binomial theorem – Pascal's triangle
 - **Status:** completed
 - **Total Time:** 00:00:02
 - The binomial expansion
 - **Status:** completed
 - **Total Time:** 00:00:04
 - The binomial expansion - examples
 - **Status:** completed
 - **Total Time:** 00:00:03

 **Diploma-in-Mathematics: Difference equations 1**

First access: Sunday, 31 July 2011, 10:20 AM (1 h 16 m)

Last access: Sunday, 31 July 2011, 10:20 AM (1 h 16 m)

Report:

- Difference equations 1
- Applications of sequences and series
 - **Status:** completed
 - **Total Time:** 00:00:02
 - Making rungs for a ladder
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Growing Town
 - **Status:** completed
 - **Total Time:** 00:00:02

 **Diploma-in-Mathematics: Difference equations 2**

First access: Sunday, 31 July 2011, 10:20 AM (1 h 15 m)

Last access: Sunday, 31 July 2011, 10:20 AM (1 h 15 m)

Report:

- Difference equations 2
- Difference equations
 - **Status:** completed
 - **Total Time:** 00:00:05
 - Generating a sequence from a difference equation
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Difference equations that represent arithmetic sequences
 - **Status:** completed
 - **Total Time:** 00:00:13
 - Difference equations that represent geometric sequences
 - **Status:** completed
 - **Total Time:** 00:00:12
 - Generate the first 4 terms of a sequence
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Generate the first 4 terms of another sequence
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Find a general expression for the nth term
 - **Status:** completed
 - **Total Time:** 00:00:10
 - Find a general expression for the nth term






- ■ **Status:** completed
- ■ **Total Time:** 00:00:10

Diploma-in-Mathematics: **Difference equations 3**

First access: Sunday, 31 July 2011, 10:21 AM (1 h 15 m)

Last access: Sunday, 31 July 2011, 10:21 AM (1 h 15 m)

Report:



- Number patterns and applications exam
- ■  Other first order difference equations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 -  Solving difference equations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 -  Find a general expression for the nth term
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 -  Find the first term from a given term
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 -  Find the first term from the second term
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06

Diploma-in-Mathematics: **Trigonometry 1**

First access: Sunday, 31 July 2011, 10:21 AM (1 h 14 m)

Last access: Sunday, 31 July 2011, 10:21 AM (1 h 14 m)

Report:

- Trigonometry applications
- ■  Trigonometry introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 -  Right-angled triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Solving non right-angled triangles
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
 -  The sine rule
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 -  The cosine rule
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
 -  The area of a triangle
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:19
 -  Example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 -  Example 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 -  Cosine rule – Example 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 -  Cosine rule – Example 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14








- ■ **Status:** completed
- ■ **Total Time:** 00:00:15

Diploma-in-Mathematics: Trigonometry 2

First access: Sunday, 31 July 2011, 10:22 AM (1 h 13 m)

Last access: Sunday, 31 July 2011, 10:22 AM (1 h 13 m)

Report:



- Trigonometry
 - ■  Pythagoras' theorem
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ■  Pythagoras in 3 dimensions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■  Similar figures
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■  Surface area and volume
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■  Similar figures example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■  Surface area and volume: example 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ■  Surface area and volume: example 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07

Diploma-in-Mathematics: Degrees and radians

First access: Sunday, 31 July 2011, 10:22 AM (1 h 13 m)

Last access: Sunday, 31 July 2011, 10:22 AM (1 h 13 m)

Report:




- Advanced Mathematics: Degrees and radians
 - ■  Exact Values
 - ■ **Status:** completed
 - ■  Conversions of Radian and Degree Measures
 - ■ **Status:** completed

Diploma-in-Mathematics: Pythagoras and bearings

First access: Sunday, 31 July 2011, 10:23 AM (1 h 12 m)

Last access: Sunday, 31 July 2011, 10:23 AM (1 h 12 m)

Report:

- Pythagoras and bearings
 - ■  The tomb of Pythagoras activity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■  Angles of elevation and depression
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■  Directions and bearings
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17

- Contour maps
 - **Status:** completed
 - **Total Time:** 00:00:15
- Traverse surveys
 - **Status:** completed
 - **Total Time:** 00:00:16
- Compass bearings
 - **Status:** completed
 - **Total Time:** 00:00:16
- True Bearings
 - **Status:** completed
 - **Total Time:** 00:00:14
- Bearings application example
 - **Status:** completed
 - **Total Time:** 00:00:13
- Field survey example
 - **Status:** completed
 - **Total Time:** 00:00:14
- Field survey example continued
 - **Status:** completed
 - **Total Time:** 00:00:11
- Bearings yachting example
 - **Status:** completed
 - **Total Time:** 00:00:12

Diploma-in-Mathematics: Trigonometric identities

First access: Sunday, 31 July 2011, 10:23 AM (1 h 12 m)

Last access: Sunday, 31 July 2011, 10:23 AM (1 h 12 m)

Report:

- Advanced Mathematics: Trigonometric identities
 - Reciprocal Circular Functions
 - **Status:** completed
 - Inverse Circular Functions
 - **Status:** completed
 - Trigonometric Identities
 - **Status:** completed

Diploma-in-Mathematics: Ratio and proportion

First access: Sunday, 31 July 2011, 10:24 AM (1 h 11 m)

Last access: Sunday, 31 July 2011, 10:24 AM (1 h 11 m)

Report:

- Ratio and proportion
 - Ratio and proportion
 - **Status:** completed
 - **Total Time:** 00:00:17
 - Simplifying ratios
 - **Status:** completed
 - **Total Time:** 00:00:21
 - Expressing ratios as a percentage
 - **Status:** completed
 - **Total Time:** 00:00:23
 - Dividing quantities in a given ratio
 - **Status:** completed
 - **Total Time:** 00:00:26
 - Applications of ratio and proportion
 - **Status:** completed
 - **Total Time:** 00:00:34

- ✓ Map scales
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:34
- ✓ Dilution factors
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:31
- ✓ Photography
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:30
- ✓ Gears
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:29
- ✓ Finding x values in ratios
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:30
- ✓ Map scales: how far is that?
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:31
- ✓ Dilution: drug strength
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:24
- ✓ Photographing a tree
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:22
- ✓ Gearing up... gearing down
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21

📁 Diploma-in-Mathematics: **Ratio and proportion gears**

First access: Sunday, 31 July 2011, 11:36 AM (3 secs)

Last access: Sunday, 31 July 2011, 11:36 AM (3 secs)

Report:

- Ratio and proportion gears
 - ■ ✓ The gears video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02

📁 Diploma-in-Mathematics: **Rules of integration**

First access: Sunday, 31 July 2011, 10:25 AM (1 h 10 m)

Last access: Sunday, 31 July 2011, 10:25 AM (1 h 10 m)

Report:





- Rules of integration
 - ■ ✓ Antidifferentiation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Antiderivatives of basic functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ✓ Finding specific functions based on given information
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ Indefinite integral
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Using related derivatives to find an integral
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05

Diploma-in-Mathematics: **Integration applications**

First access: Sunday, 31 July 2011, 10:26 AM (1 h 10 m)

Last access: Sunday, 31 July 2011, 10:26 AM (1 h 9 m)

Report:









- Integration applications
 - ■  Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ■  Approximating an area
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ■  Definite integrals
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:06
 - ■  Evaluating a definite integral
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

Diploma-in-Mathematics: **Rules of differentiation**

First access: Sunday, 31 July 2011, 10:26 AM (1 h 9 m)

Last access: Sunday, 31 July 2011, 10:26 AM (1 h 9 m)

Report:


- Rules of differentiation
 - ■  Basic functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ■  Functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■  Rules of differentiation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■  Rules for finding derivatives
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■  Linear combination of functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ■  Product of two functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ■  Quotient of two functions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ■  Function of a function
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08

Diploma-in-Mathematics: **Applications of differentiation**

First access: Sunday, 31 July 2011, 10:26 AM (1 h 9 m)

Last access: Sunday, 31 July 2011, 10:27 AM (1 h 9 m)

Report:

- Applications of differentiation
 - ■  Applications of Differentiation
 - ■ **Status:** completed

- ✓ Stationary Points
- ■ **Status:** completed
- ✓ Maximum or Minimum
- ■ **Status:** completed
- ✓ Maximum/Minimum Problems
- ■ **Status:** completed
- ✓ Equations of Tangents and Normals
- ■ **Status:** completed
- ✓ Examples
- ■ **Status:** completed

📁 Diploma-in-Mathematics: **Polynomial equations**

First access: Sunday, 31 July 2011, 11:07 AM (28 m 50 secs)

Last access: Sunday, 31 July 2011, 11:07 AM (28 m 42 secs)

Report:

- Advanced Mathematics: Polynomial equations
- ■ ✓ Solution of Polynomial Equations
 - ■ **Status:** completed
 - ✓ Example
 - ■ **Status:** completed
 - ✓ The Fundamental Theroem of Algebra
 - ■ **Status:** completed
 - ✓ Equations
 - ■ **Status:** completed
 - ✓ Examples
 - ■ **Status:** completed

📁 Diploma-in-Mathematics: **Factors of polynomials**

First access: Sunday, 31 July 2011, 11:07 AM (28 m 10 secs)

Last access: Sunday, 31 July 2011, 11:08 AM (27 m 52 secs)

Report:

- Factors of polynomials
- ■ ✓ Factorising polynomials
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Polynomial notation and function manipulations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Factorising polynomials
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Factorisation process for cubics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Factorisation process for quartics
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:14
 - ✓ Factor and remainder theorems
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Long division
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Synthetic division
 - ■ **Status:** completed

- **Total Time:** 00:00:11
- ✓ Factorising polynomials: example
- **Status:** completed
- **Total Time:** 00:00:10

Diploma-in-Mathematics: Differentiation - Product rule

First access: Sunday, 31 July 2011, 11:08 AM (27 m 40 secs)

Last access: Sunday, 31 July 2011, 11:08 AM (27 m 36 secs)

Report:

- Advanced Mathematics: Combinations of rules for differentiation
- ■ ✓ Product Rule
 - **Status:** completed
 - ✓ Example 1
 - **Status:** completed
 - ✓ Example 2
 - **Status:** completed
 - ✓ Example 3
 - **Status:** completed

Diploma-in-Mathematics: Differential equations

First access: Sunday, 31 July 2011, 11:10 AM (25 m 57 secs)

Last access: Sunday, 31 July 2011, 11:10 AM (25 m 51 secs)

Report:

- Differential equations
- ■ ✓ Introduction
 - **Status:** completed
 - **Total Time:** 00:00:21
 - ✓ Order and degree of differential equations
 - **Status:** completed
 - **Total Time:** 00:00:22
 - ✓ Verifying solutions
 - **Status:** completed
 - **Total Time:** 00:00:20
 - ✓ Rates of change
 - **Status:** completed
 - **Total Time:** 00:00:20
 - ✓ Rates of change - chain rule
 - **Status:** completed
 - **Total Time:** 00:00:19
 - ✓ The rates of change example
 - **Status:** completed
 - **Total Time:** 00:00:18
 - ✓ First order differential equations - type 1
 - **Status:** completed
 - **Total Time:** 00:00:18
 - ✓ First order differential equations - type 2
 - **Status:** completed
 - **Total Time:** 00:00:17
 - ✓ Second order differential equations
 - **Status:** completed
 - **Total Time:** 00:00:17

Diploma-in-Mathematics: Second derivatives

First access: Sunday, 31 July 2011, 11:10 AM (25 m 33 secs)

Last access: Sunday, 31 July 2011, 11:10 AM (25 m 26 secs)

Report:

- Second derivatives
- ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:02
 - ✓ Use of the second derivative
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Examples
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04
 - ✓ Second derivatives
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03

📖 **Diploma-in-Mathematics: Antiderivatives**

First access: Sunday, 31 July 2011, 11:10 AM (25 m 17 secs)

Last access: Sunday, 31 July 2011, 11:10 AM (25 m 10 secs)

Report:

- Advanced Mathematics: Antiderivatives
- ■ ✓ Review of Standard Antiderivatives
 - ■ **Status:** completed
 - ✓ Standard Antiderivative Types
 - ■ **Status:** completed
 - ✓ Type 2 - Hyperbolic Functions
 - ■ **Status:** completed
 - ✓ Type 3 - Partial Fractions
 - ■ **Status:** completed
 - ✓ Example 2
 - ■ **Status:** completed
 - ✓ Type 5 - Linear Substitution
 - ■ **Status:** completed

📖 **Diploma-in-Mathematics: Antiderivatives of circular functions**

First access: Sunday, 31 July 2011, 11:11 AM (24 m 48 secs)

Last access: Sunday, 31 July 2011, 11:11 AM (24 m 41 secs)

Report:







- Advanced Mathematics: Antiderivatives of circular functions
- ■ ✓ Type 4 - Inverse Circular Functions
 - ■ **Status:** completed
 - ✓ Examples 1 and 2
 - ■ **Status:** completed
 - ✓ Examples 3 and 4
 - ■ **Status:** completed
 - ✓ Examples 5 and 6
 - ■ **Status:** completed
 - ✓ Type 6 - Odd and Even Powers
 - ■ **Status:** completed
 - ✓ Odd Powers
 - ■ **Status:** completed
 - ✓ Even Powers
 - ■ **Status:** completed

Diploma-in-Mathematics: Antiderivatives and their graphs

First access: Sunday, 31 July 2011, 11:11 AM (24 m 13 secs)

Last access: Sunday, 31 July 2011, 11:12 AM (24 m 7 secs)

Report:




- Advanced Mathematics: Antiderivatives and their graphs
-  Relationships Between Graphs of Functions and their Antiderivatives
 - **Status:** completed
 -  Original and Antiderivative Functions
 - **Status:** completed
 -  Graphs of Antiderivatives
 - **Status:** completed
 -  Examples 1 and 2
 - **Status:** completed
 -  Examples 3 and 4
 - **Status:** completed
 -  Examples 5 and 6
 - **Status:** completed

Diploma-in-Mathematics: Graphs

First access: Sunday, 31 July 2011, 11:12 AM (23 m 29 secs)

Last access: Sunday, 31 July 2011, 11:12 AM (23 m 28 secs)

Report:







- Graphs
-  Interpreting graphs
 - **Status:** completed
 - **Total Time:** 00:00:03
 -  Step graphs
 - **Status:** completed
 - **Total Time:** 00:00:04
 -  Distance-time graphs
 - **Status:** completed
 - **Total Time:** 00:00:05

Diploma-in-Mathematics: Straight lines

First access: Sunday, 31 July 2011, 11:13 AM (23 m 2 secs)

Last access: Sunday, 31 July 2011, 11:13 AM (22 m 27 secs)

Report:

- Straight lines
-  Straight line graphs
 - **Status:** completed
 - **Total Time:** 00:00:10
 -  The general equation of a straight line
 - **Status:** completed
 - **Total Time:** 00:00:12
 -  Finding the equation of a line
 - **Status:** completed
 - **Total Time:** 00:00:20
 -  Simultaneous equations
 - **Status:** completed
 - **Total Time:** 00:00:18
 -  Method 1 - elimination
 - **Status:** completed
 - **Total Time:** 00:00:18
 -  Method 2 - substitution

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:18
- ✓ Sketching linear equations
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
- ✓ Break even analysis
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:15
- ✓ Straight line graphs - gradient
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:14
- ✓ Finding the gradient given the coordinates of two points
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:14
- ✓ Elimination examples
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:13
- ✓ The break even example
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:05
- ✓ Sketching linear equations - example 1
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:05
- ✓ Sketching linear equations - example 2
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:05
- ✓ Straight line graphs - gradient example
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:04

Diploma-in-Mathematics: **Straight line graphs**

First access: Sunday, 31 July 2011, 11:14 AM (21 m 57 secs)

Last access: Sunday, 31 July 2011, 11:15 AM (20 m 36 secs)

Report:

- Straight line graphs
- ■ ✓ Activity
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Graphs of polynomial functions: the garden activity
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:40
 - ✓ Introduction
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:10
 - ✓ Graphs of polynomial functions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:10
 - ✓ Graphs derived from standard graphs
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:07
 - ✓ Other standard graphs
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:17
 - ✓ Certain special graphs
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:18
 - ✓ Transformations
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:21
 - ✓ Reflections

- ■ **Status:** completed
■ **Total Time:** 00:00:22
- ✓ Dilations
- ■ **Status:** completed
■ **Total Time:** 00:00:21
- ✓ Combinations of transformations
- ■ **Status:** completed
■ **Total Time:** 00:00:22
- ✓ Addition of ordinates
- ■ **Status:** completed
■ **Total Time:** 00:00:22
- ✓ Important graphs
- ■ **Status:** completed
■ **Total Time:** 00:00:19
- ✓ Important graphs: Type 1
- ■ **Status:** completed
■ **Total Time:** 00:00:19
- ✓ Important graphs: type 2
- ■ **Status:** completed
■ **Total Time:** 00:00:19
- ✓ Important graphs: type 3
- ■ **Status:** completed
■ **Total Time:** 00:00:18
- ✓ Important graphs: type 4
- ■ **Status:** completed
■ **Total Time:** 00:00:17
- ✓ Graphs of inverse functions
- ■ **Status:** completed
■ **Total Time:** 00:00:14
- ✓ Graphs of polynomial functions: examples
- ■ **Status:** completed
■ **Total Time:** 00:00:14

Diploma-in-Mathematics: **Power graphs**

First access: Sunday, 31 July 2011, 11:15 AM (20 m 20 secs)

Last access: Sunday, 31 July 2011, 11:15 AM (20 m 19 secs)

Report:

- Power graphs
- ■ ✓ Power graphs
 - ■ **Status:** completed
■ **Total Time:** 00:00:01
 - ✓ Linear representation of non-linear graphs
 - ■ **Status:** completed
■ **Total Time:** 00:00:03

Diploma-in-Mathematics: **Graphs of circular functions**

First access: Sunday, 31 July 2011, 11:16 AM (20 m 2 secs)

Last access: Sunday, 31 July 2011, 11:16 AM (19 m 50 secs)

Report:

- Graphs of circular functions
- ■ ✓ Introduction
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Graphs of the form $y = A \sin(a(x+b)) + B$ and $y = A \cos(a(x+b)) + B$
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Solution of trigonometric equations

- ■ **Status:** completed
■ ■ **Total Time:** 00:00:08
- ✓ Graphs of the form $y = \tan(ax)$
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:10
- ✓ Equations of the form $\sin(ax)=B$ and $\cos(ax)=B$
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:07
- ✓ Equations of the form $\sin(ax)=k\cos(ax)$
- ■ **Status:** completed
■ ■ **Total Time:** 00:00:07

📖 Diploma-in-Mathematics: **Inverse functions**

First access: Sunday, 31 July 2011, 11:16 AM (19 m 33 secs)

Last access: Sunday, 31 July 2011, 11:16 AM (19 m 26 secs)

Report:

- Inverse functions
 - ■ ✓ Inverse functions - many-to-one and one-to-many
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:01
 - ✓ Inverse functions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:06
 - ✓ Further inverse functions
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:05
 - ✓ Examples
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:04

📖 Diploma-in-Mathematics: **Logarithms and index laws**

First access: Sunday, 31 July 2011, 11:17 AM (19 m 9 secs)

Last access: Sunday, 31 July 2011, 11:17 AM (19 m 3 secs)

Report:

- Logarithms and index laws
 - ■ ✓ Indices and logarithms
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:03
 - ✓ Solution of exponential and logarithmic equations
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:07
 - ✓ Examples
 - ■ **Status:** completed
■ ■ **Total Time:** 00:00:07

📖 Diploma-in-Mathematics: **Inverse circular functions**

First access: Sunday, 31 July 2011, 11:17 AM (18 m 55 secs)

Last access: Sunday, 31 July 2011, 11:17 AM (18 m 52 secs)

Report:

- Advanced Mathematics: Inverse circular functions
 - ■ ✓ Derivatives of Inverse Circular Functions
 - ■ **Status:** completed
 - ✓ Example 2
 - ■ **Status:** completed

- ✓ Example 3
- ■ **Status:** completed

Diploma-in-Mathematics: Reciprocal function graphs

First access: Sunday, 31 July 2011, 11:18 AM (17 m 33 secs)

Last access: Sunday, 31 July 2011, 11:18 AM (17 m 29 secs)

Report:

- Advanced Mathematics: reciprocal function graphs
- ■ ✓ Graphs of Reciprocal Functions
 - ■ **Status:** completed
 - ✓ Example 1
 - ■ **Status:** completed
 - ✓ Example 2
 - ■ **Status:** completed
 - ✓ Example 3
 - ■ **Status:** completed

Diploma-in-Mathematics: Symmetry and periodicity

First access: Sunday, 31 July 2011, 11:18 AM (17 m 11 secs)

Last access: Sunday, 31 July 2011, 11:19 AM (17 m 3 secs)

Report:

- Advanced Mathematics: Symmetry and periodicity
- ■ ✓ Use of Symmetric, Periodic and Complementary Relationships of Circular Functions
 - ■ **Status:** completed
 - ✓ Symmetry Example 1
 - ■ **Status:** completed
 - ✓ Example 2
 - ■ **Status:** completed
 - ✓ Example 3
 - ■ **Status:** completed
 - ✓ Periodicity
 - ■ **Status:** completed
 - ✓ Complementary Relationships
 - ■ **Status:** completed
 - ✓ Complementary Relationship Examples
 - ■ **Status:** completed

Diploma-in-Mathematics: Kinematics

First access: Sunday, 31 July 2011, 11:19 AM (16 m 23 secs)

Last access: Sunday, 31 July 2011, 11:20 AM (15 m 59 secs)

Report:

- Kinematics
- ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:08
 - ✓ Finding displacement from velocity
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10
 - ✓ Solving differential equations (rectilinear motion) example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13

- ✓ Finding acceleration or velocity from displacement
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:21
- ✓ Constant acceleration - introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:20
- ✓ Constant acceleration - example 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
- ✓ Velocity time graphs - introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
- ✓ Finding the acceleration from the velocity time graph
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Finding the distance travelled from a velocity time graph
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
- ✓ Velocity time graphs - example
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
- ✓ Constant acceleration - example 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:10

Diploma-in-Mathematics: Motion

First access: Sunday, 31 July 2011, 11:20 AM (15 m 35 secs)

Last access: Sunday, 31 July 2011, 11:21 AM (14 m 21 secs)

Report:

- Motion
 - ■ ✓ Introduction
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:07
 - ✓ Newton's laws of motions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Forces-weight
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ✓ Diagram of forces
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Basic equation of motion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Resolution of forces
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Horizontal and vertical
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ✓ Equations of motion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Parallel and perpendicular to a plane
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Equations of motion
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Moving down the slope

- **Status:** completed
 - **Total Time:** 00:00:14
- ✓ Connected masses
- **Status:** completed
 - **Total Time:** 00:00:14
- ✓ Motion under a constant force
- **Status:** completed
 - **Total Time:** 00:00:06
- ✓ Motion under a constant force - example 1
- **Status:** completed
 - **Total Time:** 00:00:06
- ✓ Motion under a constant force - example 2
- **Status:** completed
 - **Total Time:** 00:00:04
- ✓ Motion under a variable force
- **Status:** completed
 - **Total Time:** 00:00:05
- ✓ Motion under a variable force - example 1
- **Status:** completed
 - **Total Time:** 00:00:05
- ✓ Motion under a variable force - example 2
- **Status:** completed
 - **Total Time:** 00:00:05
- ✓ Motion under a variable force - example 3
- **Status:** completed
 - **Total Time:** 00:00:02
- ✓ Momentum and impulse
- **Status:** completed
 - **Total Time:** 00:00:08
- ✓ Momentum and impulse example
- **Status:** completed
 - **Total Time:** 00:00:08
- ✓ Moving up the slope
- **Status:** completed
 - **Total Time:** 00:00:09
- ✓ Motion under a constant force - example 1 continued
- **Status:** completed
 - **Total Time:** 00:00:09
- ✓ Forces-normal reaction
- **Status:** completed
 - **Total Time:** 00:00:09
- ✓ Forces-friction
- **Status:** completed
 - **Total Time:** 00:00:06
- ✓ Forces-tension
- **Status:** completed
 - **Total Time:** 00:00:06

Diploma-in-Mathematics: Resolution of forces

First access: Sunday, 31 July 2011, 11:22 AM (14 m 1 sec)

Last access: Sunday, 31 July 2011, 11:22 AM (13 m 54 secs)

Report:

- Resolution of forces
- ■ ✓ Introduction
 - **Status:** completed
 - **Total Time:** 00:00:03
- ✓ Resolution of forces
 - **Status:** completed
 - **Total Time:** 00:00:08
- ✓ Three forces

- ■ **Status:** completed
- ■ **Total Time:** 00:00:08
- ✓ Static friction
- ■ **Status:** completed
- ■ **Total Time:** 00:00:07
- ✓ Angle of friction
- ■ **Status:** completed
- ■ **Total Time:** 00:00:07

Diploma-in-Mathematics: Scalar products of vectors

First access: Sunday, 31 July 2011, 11:22 AM (13 m 44 secs)

Last access: Sunday, 31 July 2011, 11:22 AM (13 m 25 secs)

Report:

- Advanced Mathematics: Scalar products of vectors
- ■ ✓ Scalar and vector resolutes
 - ■ **Status:** completed
 - ✓ Scalar resolutes
 - ■ **Status:** completed
 - ✓ Vector resolutes
 - ■ **Status:** completed
 - ✓ Vector resolute examples
 - ■ **Status:** completed
 - ✓ Scalar (or dot) Product
 - ■ **Status:** completed
 - ✓ Using the Dot Product in Vector Proofs
 - ■ **Status:** completed
 - ✓ Example 1
 - ■ **Status:** completed
 - ✓ Finding the Angle Between Two Vectors
 - ■ **Status:** completed
 - ✓ Example 2 (midpoints)
 - ■ **Status:** completed
 - ✓ Perpendicular Vectors
 - ■ **Status:** completed
 - ✓ Inclination to the x or y axis
 - ■ **Status:** completed
 - ✓ Example 3 (midpoints)
 - ■ **Status:** completed
 - ✓ Example 4 (Co-linear points)
 - ■ **Status:** completed

Diploma-in-Mathematics: Vectors

First access: Sunday, 31 July 2011, 11:23 AM (12 m 34 secs)

Last access: Sunday, 31 July 2011, 11:23 AM (12 m 15 secs)

Report:

- Vectors
- ■ ✓ Position vectors as functions of time (Parametric Equations)
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ✓ Finding cartesian equations from parametric equations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 - ✓ Example 1
 - ■ **Status:** completed

- **Total Time:** 00:00:14
- ✓ Example 2
- **Status:** completed
- **Total Time:** 00:00:13
- ✓ Collision
- **Status:** completed
- **Total Time:** 00:00:15
- ✓ Example 3
- **Status:** completed
- **Total Time:** 00:00:14
- ✓ Using a graphic calculator with parametric equations
- **Status:** completed
- **Total Time:** 00:00:14
- ✓ Using a graphic calculator with two parametric equations to show a collision
- **Status:** completed
- **Total Time:** 00:00:11
- ✓ The closest distance to a path
- **Status:** completed
- **Total Time:** 00:00:13
- ✓ Example 4
- **Status:** completed
- **Total Time:** 00:00:11

Diploma-in-Mathematics: **Vectors 2**

First access: Sunday, 31 July 2011, 11:24 AM (11 m 47 secs)

Last access: Sunday, 31 July 2011, 11:24 AM (11 m 44 secs)

Report:

- Vectors 2
 - ■ ✓ The garden activity
 - **Status:** completed
 - **Total Time:** 00:00:00
 - ✓ Notation used in vector calculus
 - **Status:** completed
 - **Total Time:** 00:00:12
 - ✓ Differentiation and anti differentiation of vectors
 - **Status:** completed
 - **Total Time:** 00:00:11
 - ✓ Example 1
 - **Status:** completed
 - **Total Time:** 00:00:08
 - ✓ Example 2
 - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-Mathematics: **Vectors in 2 and 3 dimensions**

First access: Sunday, 31 July 2011, 11:24 AM (11 m 36 secs)

Last access: Sunday, 31 July 2011, 11:25 AM (10 m 59 secs)

Report:

- Advanced Mathematics
 - ■ Advanced Mathematics: vectors in 2 and 3 dimensions
 - **Status:** completed
 - ✓ Vector Definition
 - **Status:** completed
 - ✓ Symbols Used to Represent Vectors
 - **Status:** completed
 - ✓ Magnitude of a Vector
 - **Status:** completed
 - ✓ Zero Vector

- ■ **Status:** completed
- ✓ Subtracting Vectors
- ■ **Status:** completed
- ✓ Equal vectors
- ■ **Status:** completed
- ✓ Parallel Vectors
- ■ **Status:** completed
- ✓ Vectors in Cartesian Form
- ■ **Status:** completed
- ✓ Position Vectors
- ■ **Status:** completed
- ✓ The Cartesian Plane
- ■ **Status:** completed
- ✓ Linear Dependence and Independence
- ■ **Status:** completed
- ✓ Unit Vector
- ■ **Status:** completed
- ✓ Multiplying by a Scalar
- ■ **Status:** completed
- ✓ Linear Dependence and Independence Example
- ■ **Status:** completed

Diploma-in-Mathematics: Introduction to Algebra

First access: Sunday, 31 July 2011, 11:26 AM (10 m 10 secs)

Last access: Sunday, 31 July 2011, 11:26 AM (10 m 8 secs)

Report:

- Introduction to algebra
- ■ ✓ Introduction to algebra
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ✓ The language of algebra
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ Algebraic notation
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-Mathematics: Using Formulae 1

First access: Sunday, 31 July 2011, 11:26 AM (9 m 42 secs)

Last access: Sunday, 31 July 2011, 11:26 AM (9 m 21 secs)

Report:

- Using formulae 1
- ■ ✓ Using formulae
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09
 - ✓ The XSIQ petrol pump
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 - ✓ Petrol stations
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ✓ Renting a car
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ✓ Get real rent-a-car deal

- ■ **Status:** completed
- ■ **Total Time:** 00:00:18
- ✓ Speed examples
- ■ **Status:** completed
- ■ **Total Time:** 00:00:17
- ✓ Speed
- ■ **Status:** completed
- ■ **Total Time:** 00:00:16
- ✓ Temperature
- ■ **Status:** completed
- ■ **Total Time:** 00:00:14
- ✓ Temperature examples
- ■ **Status:** completed
- ■ **Total Time:** 00:00:14
- ✓ Temperature converter
- ■ **Status:** completed
- ■ **Total Time:** 00:00:11

Diploma-in-Mathematics: Using Formulae 2

First access: Sunday, 31 July 2011, 11:27 AM (9 m 1 sec)

Last access: Sunday, 31 July 2011, 11:27 AM (8 m 46 secs)

Report:

- Using formulae 2
 - ■ ✓ The using formulae speed video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:01
 - ■ ✓ The using formulae temperature video
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:04

Diploma-in-Mathematics: Algebraic Expressions 1

First access: Sunday, 31 July 2011, 11:27 AM (8 m 18 secs)

Last access: Sunday, 31 July 2011, 11:28 AM (7 m 48 secs)

Report:

- Algebraic expressions 2
 - ■ ✓ Simplifying algebraic expressions without using algebra blocks
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 - ■ ✓ Verifying the simplified form of an algebraic expression
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:15
 - ■ ✓ Verifying the simplification using substitution - examples
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ■ ✓ Verifying the simplification using a spreadsheet
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 - ■ ✓ Adding and subtracting terms - practice questions 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:18
 - ■ ✓ Adding and subtracting terms - practice questions 2
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:16
 - ■ ✓ Multiplying terms - Commutative Law
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17
 - ■ ✓ Multiplying terms - rearranging 1
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:17

- ■ **Status:** completed
■ **Total Time:** 00:00:17
- ✓ Multiplying terms - rearranging 2
- ■ **Status:** completed
■ **Total Time:** 00:00:17
- ✓ Dividing terms - rearranging 1
- ■ **Status:** completed
■ **Total Time:** 00:00:15
- ✓ Dividing terms - rearranging 2
- ■ **Status:** completed
■ **Total Time:** 00:00:01
- ✓ Adding and subtracting like terms without using algebra blocks
- ■ **Status:** completed
■ **Total Time:** 00:00:09

Diploma-in-Mathematics: Algebraic Expressions 2

First access: Sunday, 31 July 2011, 11:28 AM (7 m 23 secs)

Last access: Sunday, 31 July 2011, 11:28 AM (7 m 17 secs)

Report:

- Algebraic expressions 3
- ■ ✓ Expanding and simplifying algebraic expressions
 - ■ **Status:** completed
■ **Total Time:** 00:00:04
 - ✓ Distributive Law - algebra blocks
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ Distributive Law - expansion
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Expanding and collecting like terms
 - ■ **Status:** completed
■ **Total Time:** 00:00:08
 - ✓ Expanding and simplifying algebraic expressions
 - ■ **Status:** completed
■ **Total Time:** 00:00:07

Diploma-in-Mathematics: Algebraic Fractions 1

First access: Sunday, 31 July 2011, 11:29 AM (6 m 49 secs)

Last access: Sunday, 31 July 2011, 11:29 AM (6 m 22 secs)

Report:

- Algebraic fractions 1
- ■ ✓ Introduction to algebraic fractions
 - ■ **Status:** completed
■ **Total Time:** 00:00:06
 - ✓ Adding simple algebraic fractions
 - ■ **Status:** completed
■ **Total Time:** 00:00:09
 - ✓ Subtracting algebraic fractions
 - ■ **Status:** completed
■ **Total Time:** 00:00:15
 - ✓ Fractions with letters in the denominators
 - ■ **Status:** completed
■ **Total Time:** 00:00:15
 - ✓ Binomials in denominator
 - ■ **Status:** completed
■ **Total Time:** 00:00:17
 - ✓ Speed and algebraic fractions

- ■ **Status:** completed
■ **Total Time:** 00:00:16
- ✓ The faster car takes less time
- ■ **Status:** completed
■ **Total Time:** 00:00:24
- ✓ Calculating the time difference
- ■ **Status:** completed
■ **Total Time:** 00:00:12
- ✓ Adding and subtracting algebraic fractions - practice questions
- ■ **Status:** completed
■ **Total Time:** 00:00:12

📖 **Diploma-in-Mathematics: Algebraic Fractions 2**

First access: Sunday, 31 July 2011, 11:30 AM (6 m 2 secs)

Last access: Sunday, 31 July 2011, 11:30 AM (5 m 54 secs)

Report:

- Algebraic fractions 2
- ■ ✓ Factorising algebraic expressions
 - ■ **Status:** completed
■ **Total Time:** 00:00:02
 - ✓ Factorising algebraic expressions
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ Highest common factor
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ More complex highest common factors
 - ■ **Status:** completed
■ **Total Time:** 00:00:07
 - ✓ Factorising algebraic expressions - practice questions
 - ■ **Status:** completed
■ **Total Time:** 00:00:07

📖 **Diploma-in-Mathematics: Algebraic Fractions 3**

First access: Sunday, 31 July 2011, 11:30 AM (5 m 38 secs)

Last access: Sunday, 31 July 2011, 11:30 AM (5 m 35 secs)

Report:

- Algebraic fractions 3
- ■ ✓ Factorising algebraic expressions - grouping
 - ■ **Status:** completed
■ **Total Time:** 00:00:03
 - ✓ Grouping two and two
 - ■ **Status:** completed
■ **Total Time:** 00:00:04
 - ✓ Grouping three terms and one term
 - ■ **Status:** completed
■ **Total Time:** 00:00:05

📖 **Diploma-in-Mathematics: Terminology for Algebraic Expressions**

First access: Sunday, 31 July 2011, 11:30 AM (5 m 25 secs)

Last access: Sunday, 31 July 2011, 11:30 AM (5 m 25 secs)

Report:

- Terminology for algebraic expressions
- ■ ✓ Terminology for algebraic expressions









- ■ **Status:** completed
- ■ **Total Time:** 00:00:02

Diploma-in-Mathematics: Binomial Expressions 1

First access: Sunday, 31 July 2011, 11:31 AM (5 m 7 secs)

Last access: Sunday, 31 July 2011, 11:31 AM (4 m 54 secs)

Report:






- Binomial expressions 1
- ■  Binomial expressions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:05
 -  Binomial expansions with like and unlike terms
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Binomial expansions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Binomial expansions and areas
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Using binomial expansions for problem solving
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Binomial expansions - reminder
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Binomial expansion with two variables
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11
 -  Binomial expansions - practice questions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:09

Diploma-in-Mathematics: Binomial Expressions 2

First access: Sunday, 31 July 2011, 11:31 AM (4 m 37 secs)

Last access: Sunday, 31 July 2011, 11:31 AM (4 m 25 secs)

Report:

- Binomial expressions 2
- ■  Binomial expansions with perfect and non-perfect squares
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:03
 -  Binomial expansions with non-perfect squares
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Expanding perfect squares - practice questions
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:13
 -  Binomial expansions with perfect squares
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:12
 -  Binomial expansions with perfect squares
 - ■ **Status:** completed
 - ■ **Total Time:** 00:00:11

Diploma-in-Mathematics: Binomial Expressions 3

First access: Sunday, 31 July 2011, 11:32 AM (4 m 8 secs)

Last access: Sunday, 31 July 2011, 11:32 AM (3 m 56 secs)

Report:

- Binomial expressions 3
 - Binomial expansions - Difference of perfect squares
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Difference of perfect squares (DOPS)
 - **Status:** completed
 - **Total Time:** 00:00:10
 - Expanding and simplifying algebraic expressions - practice questions
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Expanding using the difference of perfect squares rule
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Difference of perfect squares rule
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Difference of perfect squares
 - **Status:** completed
 - **Total Time:** 00:00:07

Diploma-in-Mathematics: Completing the Square

First access: Sunday, 31 July 2011, 11:32 AM (3 m 37 secs)

Last access: Sunday, 31 July 2011, 11:32 AM (3 m 34 secs)

Report:

- Completing the square
 - Completing the square
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Factorising quadratic trinomials using the method of completing the square
 - **Status:** completed
 - **Total Time:** 00:00:05
 - Process to factorise a quadratic trinomial by the method of completing the square
 - **Status:** completed
 - **Total Time:** 00:00:05

Diploma-in-Mathematics: Perfect Squares

First access: Sunday, 31 July 2011, 11:32 AM (3 m 17 secs)

Last access: Sunday, 31 July 2011, 11:32 AM (3 m 15 secs)

Report:

- Perfect squares
 - Using the difference of perfect squares 1
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Using the difference of perfect squares 2
 - **Status:** completed
 - **Total Time:** 00:00:04
 - Factorising using the difference of perfect squares (DOPS) expressions
 - **Status:** completed
 - **Total Time:** 00:00:03

Diploma-in-Mathematics: Quadratic Trinomials

First access: Sunday, 31 July 2011, 11:33 AM (2 m 58 secs)

Last access: Sunday, 31 July 2011, 11:33 AM (2 m 45 secs)

Report:

- Quadratic trinomials
- - What are quadratic trinomials?
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Factorising the general form by inspection
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Factorising quadratic trinomials
 - **Status:** completed
 - **Total Time:** 00:00:11
 - Factorising algebraic expressions - quadratic trinomials
 - **Status:** completed
 - **Total Time:** 00:00:10
 - Factorising quadratic trinomials
 - **Status:** completed
 - **Total Time:** 00:00:09
 - Factorising quadratic trinomials
 - **Status:** completed
 - **Total Time:** 00:00:08
 - Factorisation of quadratic trinomials
 - **Status:** completed
 - **Total Time:** 00:00:08
 - **Status:** completed
 - **Total Time:** 00:00:08

 **Diploma-in-Mathematics: Substitution into Algebraic Expressions**

First access: Sunday, 31 July 2011, 11:33 AM (2 m 34 secs)

Last access: Sunday, 31 July 2011, 11:33 AM (2 m 34 secs)

Report:

- Substitution into algebraic expressions
- - Substitution into algebraic expressions
 - **Status:** completed
 - **Total Time:** 00:00:01

 **Diploma-in-Mathematics: Summary of Factorisation**

First access: Sunday, 31 July 2011, 11:33 AM (2 m 20 secs)

Last access: Sunday, 31 July 2011, 11:33 AM (2 m 14 secs)

Report:

- Summary of factorisation
- - Summary of factorisation
 - **Status:** completed
 - **Total Time:** 00:00:03
 - Practice question - Sally's patio
 - **Status:** completed
 - **Total Time:** 00:00:06
 - Practice question - in the swim with algebra
 - **Status:** completed
 - **Total Time:** 00:00:05
 - Practice question - algebra can be fishy
 - **Status:** completed
 - **Total Time:** 00:00:04

 **Diploma-in-Mathematics: Assessment**

First access: Saturday, 30 April 2011, 05:51 PM (91 days 17 h)

Last access: Saturday, 30 April 2011, 05:51 PM (91 days 17 h)

Report:

- Diploma in Mathematics Assessment
- ■ Diploma in Mathematics Assessment
 - **Status:** passed
 - **Score:** 85% (PASSED)
 - **Total Time:** 01:03:04

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