

FUNCTIONAL SKILLS

Level 2 Maths Online Resources

FUNCTIONAL MATHS ONLINE RESOURCES

It's all about real life problem solving. These e-resources are to be used to develop your underpinning Maths Skills. You will need these skills to complete your Level 2 Functional Maths Tasks.

The web has many excellent resources that can support your skills development. OCR has developed this document to help you quickly find this support using the hyperlinks enclosed.

To access the hyperlinks, place your cursor over the underlined hyperlinked words and left click.

YOUR INDIVIDUAL LEARNING PLAN

On your individual learning plan, have you identified the skills you need to improve? If not, you need to do this, and then tick them off as you achieve these skills.

FUNCTIONAL PROCESS SKILLS

These are the wider and critical thinking skills you need to use for problem solving.

REPRESENTING

- Understand routine and non-routine problems in familiar and unfamiliar contexts and situations.
- Identify the situation or problems and identify the mathematical methods needed to solve them.
- Choose from a range of mathematics to find solutions

ANALYSING

- Apply a range of mathematics to find solutions.
- Use appropriate checking procedures and evaluate their effectiveness at each stage.

INTERPRETING

- Interpret and communicate solutions to multi-stage practical problems in familiar and unfamiliar contexts and situations.
- Draw conclusions and provide mathematical justifications.

LEVEL 2 COVERAGE AND RANGE SKILLS

THESE ARE THE UNDERPINNING SKILLS YOU NEED TO BE ABLE TO PERFORM THE PROCESS SKILLS:

Understand and use positive and negative numbers of any size in practical contexts:

[Negative numbers](#)

[Activity video: negative numbers](#)

[Long multiplication and division](#)

[Activity video: multiplication and division](#)

[Order of operation](#)

[Activity video: order of operation](#)

[Rounding and estimating](#)

[Activity video: estimating](#)



Recognise and use 2-D representations of 3D objects:

[Polygons](#)

[Activity video: polygons](#)

[3-D shapes](#)

[Activity video: 3-D shapes](#)

Add, subtract, multiply and divide whole numbers using a range of strategies:

[Fractions review](#)

[Fractions: adding, subtracting, multiplying and dividing](#)

[Place value and ordering decimals](#)

[Percentages](#)

[Activity video: percentages](#)

[Converting fractions, decimals and percentages](#)

[Activity video: decimals](#)

Understand, use and calculate ration and proportion, including problems involving scale:

[Ratios](#)

[Activity video: ratios](#)

LEVEL 2 COVERAGE AND RANGE SKILLS (CONT)

Find area, perimeter and volume of common shapes:

[Area and perimeter](#)

[Activity video: perimeter](#)

[Pythagoras](#)

[Activity video: pythagoras](#)

[Angles](#)

[Activity video: angles](#)

Understand and use equivalences between fractions, decimals and percentages:

[Converting fractions, decimals and percentages](#)

[Activity video: decimals](#)

Use, convert and calculate using metric and, where appropriate, imperial measures:

[Converting measurements](#)

[Activity video: measures](#)

[Compound measures](#)

[Discrete and continuous measurements](#)



Collect and represent discrete and continuous data, using ICT where appropriate

[Tallying, collecting and grouping data](#)

[Activity video: collecting data](#)

[Questionnaires](#)

[Sampling](#)

Use statistical methods to investigate situations:

[Statistics and probability](#)

LEVEL 2 COVERAGE AND RANGE SKILLS (CONT)

Use and interpret statistical measures, tables and diagrams, for discrete and continuous data, using ICT where appropriate:

[Coordinates](#)

[Straight line graphs](#)

[Graph plotting](#)

[Find the gradient of straight lines](#)

[Curved graphs](#)

[Graphs modelling real situations](#)

[Activity video: graphs](#)

[Pie charts](#)

[Line graphs, frequency polygons, stem and leaf diagrams](#)

[Scatter diagrams](#)



Understand and use simple formulae and equations involving one or two step operations:

[Using formulae](#)

[Activity video: formulae](#)

[Re-arranging symbols](#)

[Solving equations](#)

[Activity video: equations](#)

[Index notions](#)

[Trial and improvement](#)

[Activity video: trial and improvement](#)

Use probability to assess the likelihood of an outcome:

[Statistics and probability](#)

[Mean, mode and median review](#)

[Probability](#)

General review:

[Brain Games](#) (free resource, click 'jump in' or you can register)

[Maths bingo](#)

[RU Revising maths?](#)

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