How to revise maths - 4.45 pm

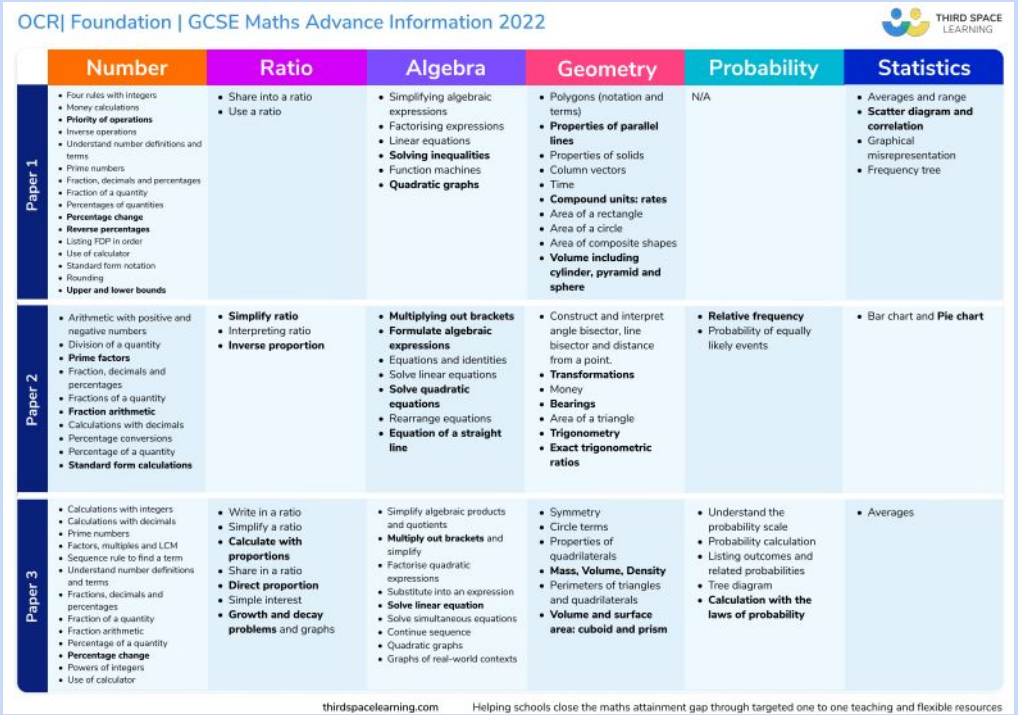
Have a timetable.

Have a focus.

Small manageable chunks.

Doing maths is the best way of learning.

How to revise maths



OCR| Foundation | GCSE Maths Advance Information 2022

THIRD SPACE LEARNING

	Number	Ratio	Algebra	Geometry	Probability	Statistics
Paper 1	• Four rules with integers • Money calculations • **Priority of operations** • Inverse operations • Understand number definitions and terms • Prime numbers • Fraction, decimals and percentages • Fraction of a quantity • Percentages of quantities • **Percentage change** • **Reverse percentages** • Listing FDP in order • Use of calculator • Standard form notation • Rounding • **Upper and lower bounds**	• Share into a ratio • Use a ratio	• Simplifying algebraic expressions • Factorising expressions • Linear equations • **Solving inequalities** • Function machines • **Quadratic graphs**	• Polygons (notation and terms) • **Properties of parallel lines** • Properties of solids • Column vectors • Time • **Compound units: rates** • Area of a rectangle • Area of a circle • Area of composite shapes • **Volume including cylinder, pyramid and sphere**	N/A	• Averages and range • **Scatter diagram and correlation** • Graphical misrepresentation • Frequency tree
Paper 2	• Arithmetic with positive and negative numbers • Division of a quantity • **Prime factors** • Fraction, decimals and percentages • Fractions of a quantity • **Fraction arithmetic** • Calculations with decimals • Percentage conversions • Percentage of a quantity • **Standard form calculations**	• **Simplify ratio** • Interpreting ratio • **Inverse proportion**	• **Multiplying out brackets** • **Formulate algebraic expressions** • Equations and identities • Solve linear equations • **Solve quadratic equations** • Rearrange equations • **Equation of a straight line**	• Construct and interpret angle bisector, line bisector and distance from a point. • **Transformations** • Money • **Bearings** • Area of a triangle • **Trigonometry** • **Exact trigonometric ratios**	• **Relative frequency** • Probability of equally likely events	• Bar chart and **Pie chart**
Paper 3	• Calculations with integers • Calculations with decimals • Prime numbers • Factors, multiples and LCM • Sequence rule to find a term • Understand number definitions and terms • Fractions, decimals and percentages • Fraction of a quantity • Fraction arithmetic • Percentage of a quantity • **Percentage change** • Powers of integers • Use of calculator	• Write in a ratio • Simplify a ratio • **Calculate with proportions** • Share in a ratio • **Direct proportion** • Simple interest • **Growth and decay problems** and graphs	• Simplify algebraic products and quotients • **Multiply out brackets** and simplify • Factorise quadratic expressions • Substitute into an expression • **Solve linear equation** • Solve simultaneous equations • Continue sequence • Quadratic graphs • Graphs of real-world contexts	• Symmetry • Circle terms • Properties of quadrilaterals • **Mass, Volume, Density** • Perimeters of triangles and quadrilaterals • **Volume and surface area: cuboid and prism**	• Understand the probability scale • Probability calculation • Listing outcomes and related probabilities • Tree diagram • **Calculation with the laws of probability**	• Averages

thirdspacelearning.com Helping schools close the maths attainment gap through targeted one to one teaching and flexible resources

3 papers each 90 minutes

Foundation

Paper 1 - Calculator (20/5)

Paper 2 Non calculator (7/6)

Paper 3 Calculator (13/6)

Higher

Paper 4 Calculator (20/5)

Paper 5 Non calculator (7/6)

Paper 6 Calculator (13/6)

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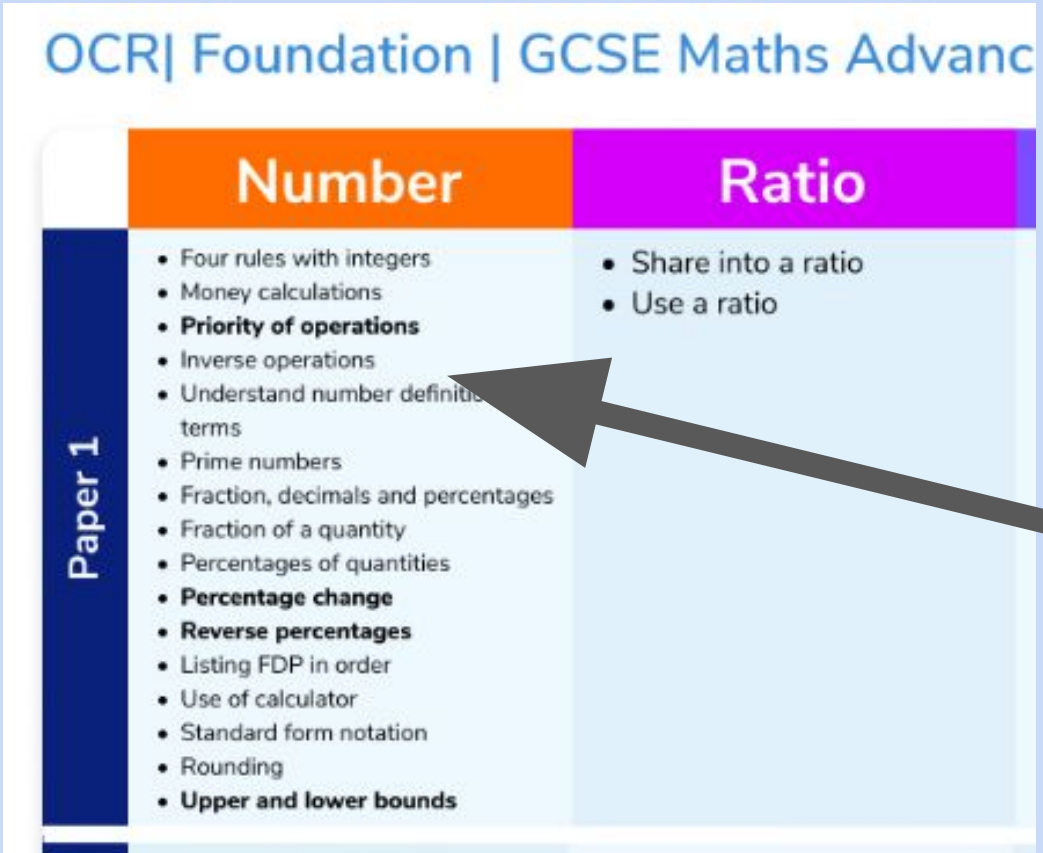
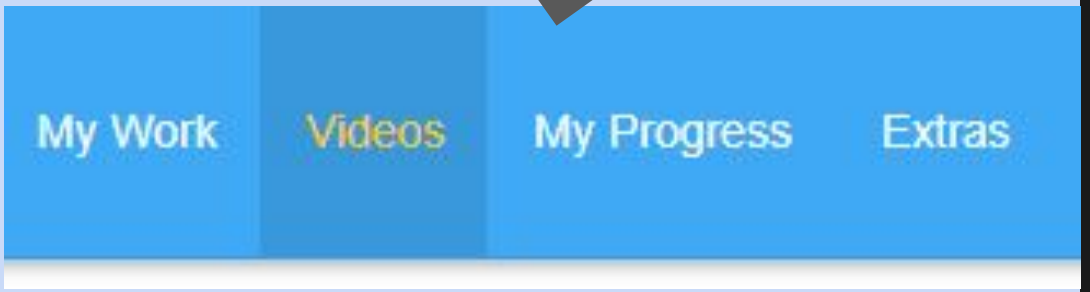
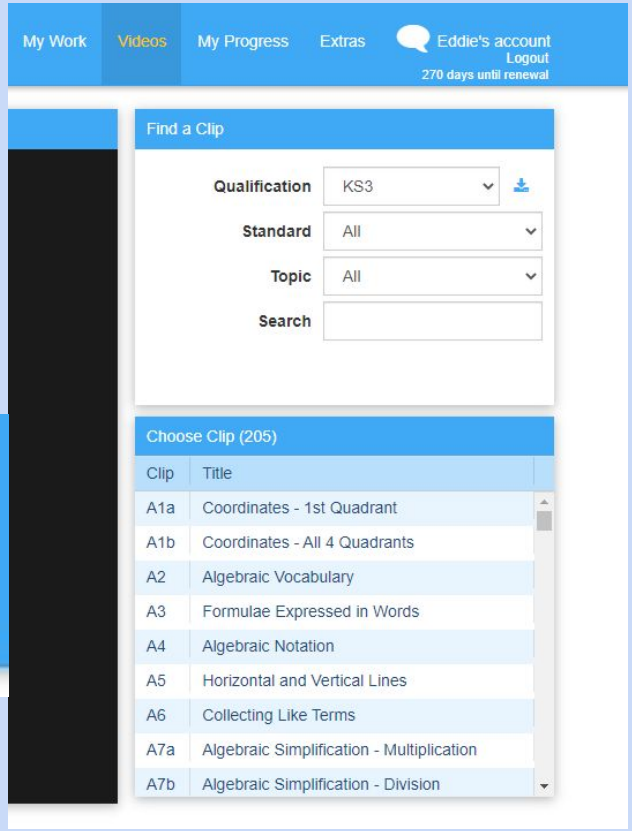


Bold means they come up in both foundation and higher.

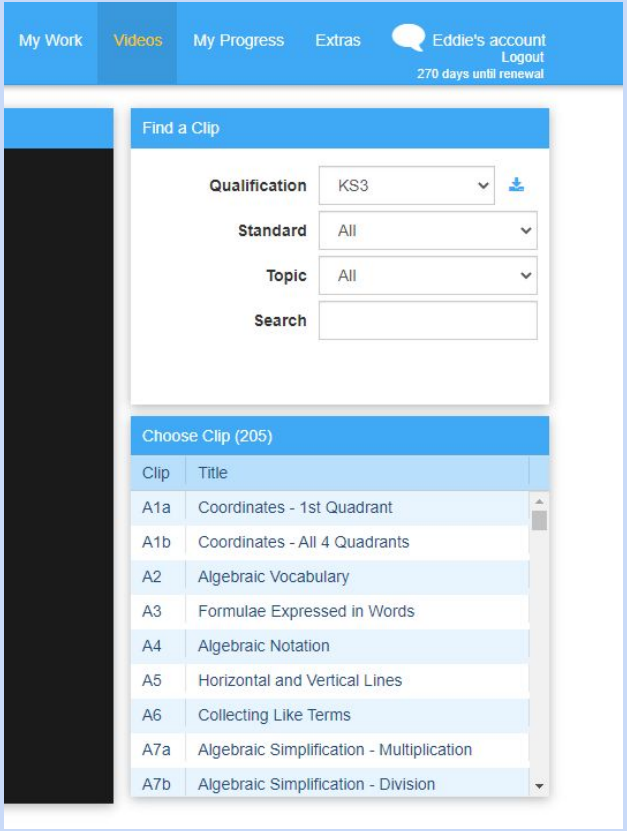
How to revise maths

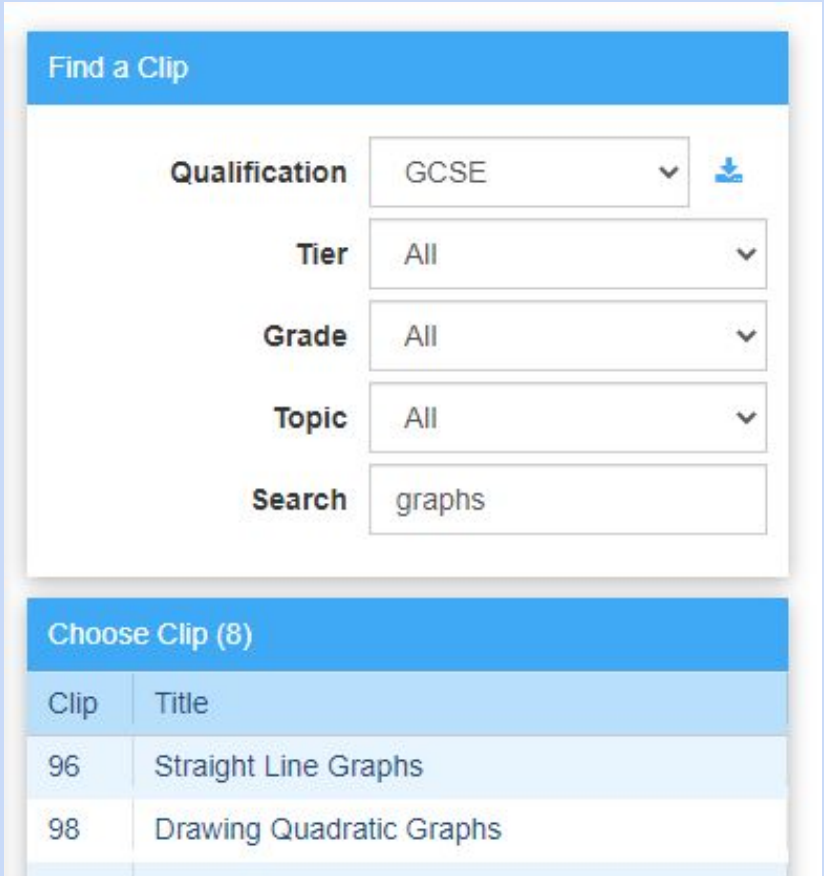
MathsWatch





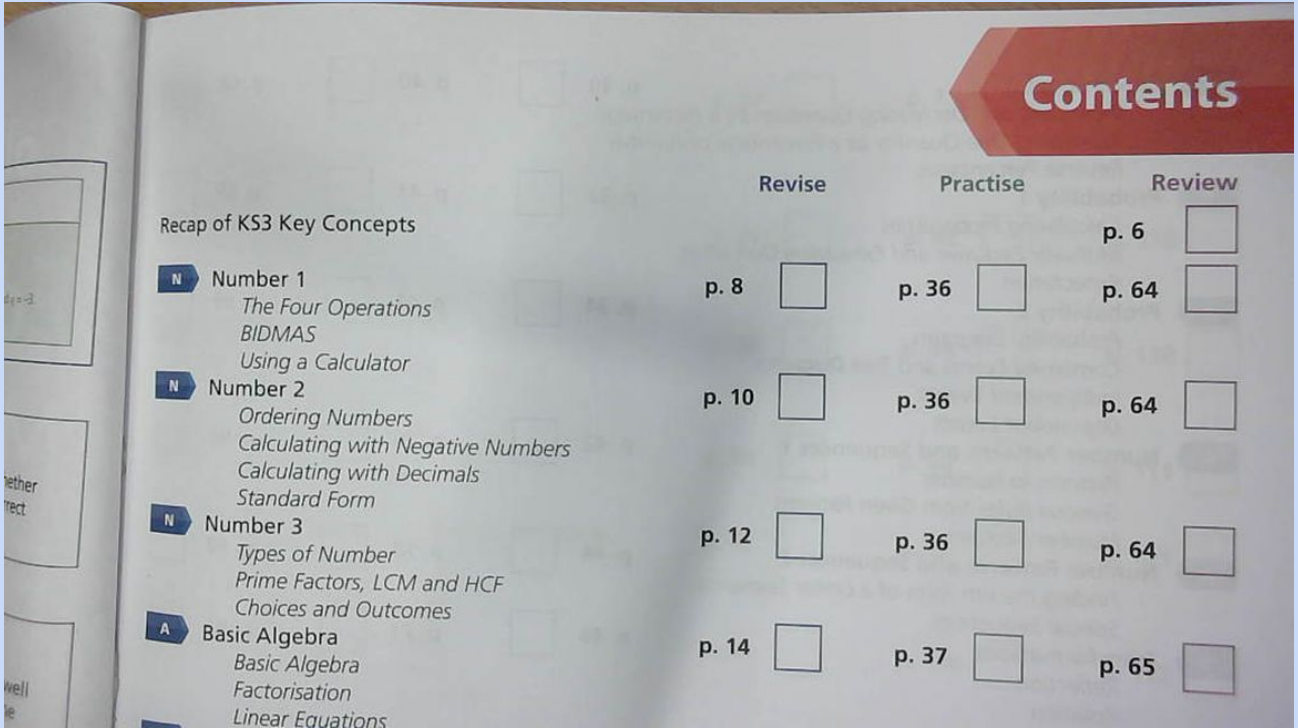
How to revise maths





How to revise maths

Going old school !



Contents

		Revise	Practise	Review
	Recap of KS3 Key Concepts			p. 6 ☐
N	Number 1 *The Four Operations* *BIDMAS* *Using a Calculator*	p. 8 ☐	p. 36 ☐	p. 64 ☐
N	Number 2 *Ordering Numbers* *Calculating with Negative Numbers* *Calculating with Decimals* *Standard Form*	p. 10 ☐	p. 36 ☐	p. 64 ☐
N	Number 3 *Types of Number* *Prime Factors, LCM and HCF* *Choices and Outcomes*	p. 12 ☐	p. 36 ☐	p. 64 ☐
A	Basic Algebra *Basic Algebra* *Factorisation* *Linear Equations*	p. 14 ☐	p. 37 ☐	p. 65 ☐

How to revise maths

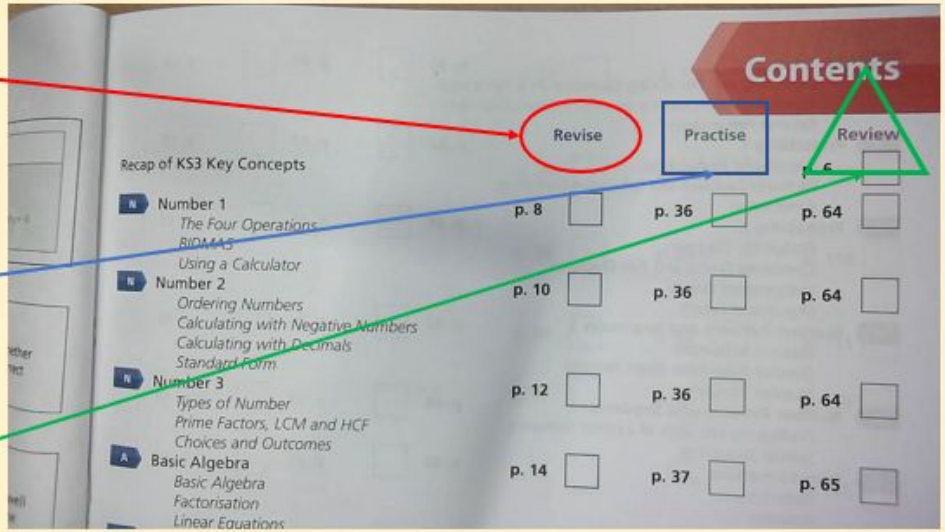
Contents Page

The topics are split into three categories:

Revise

Practise

REVIEW



How to revise maths

How to answer maths questions!

18 A triangle has sides of length 14.1 cm, 14.8 cm and 19.5 cm.

Is this a right-angled triangle?
Show how you decide.

How to revise maths

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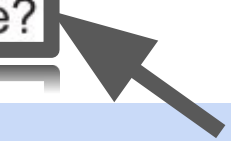

Highlight the question (it will normally have the question mark but not always)

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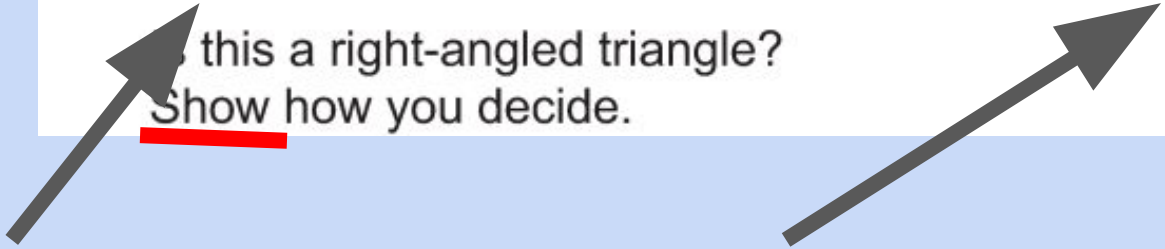
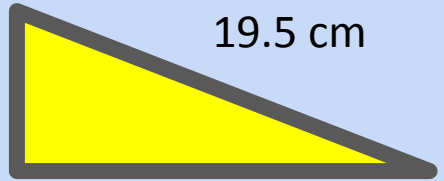


Underline the important information - mathematical words and the numbers.

How to revise maths

How to answer maths questions!



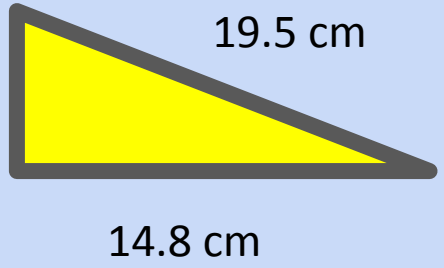
18 A triangle has sides of length 14.1 cm, 14.8 cm and 19.5 cm.

Is this a right-angled triangle?
Show how you decide.

If it is tricky then draw a picky!! Showing in a different way may help you solve the problem.

How to revise maths

How to answer maths questions!



18 A triangle has sides of length 14.1 cm, 14.8 cm and 19.5 cm.

Is this a right-angled triangle?
Show how you decide.

If unsure do something with the numbers - it is a maths exam!

How to revise maths

The best way to get better at maths is by doing maths!

Please take an information sheet on your way out