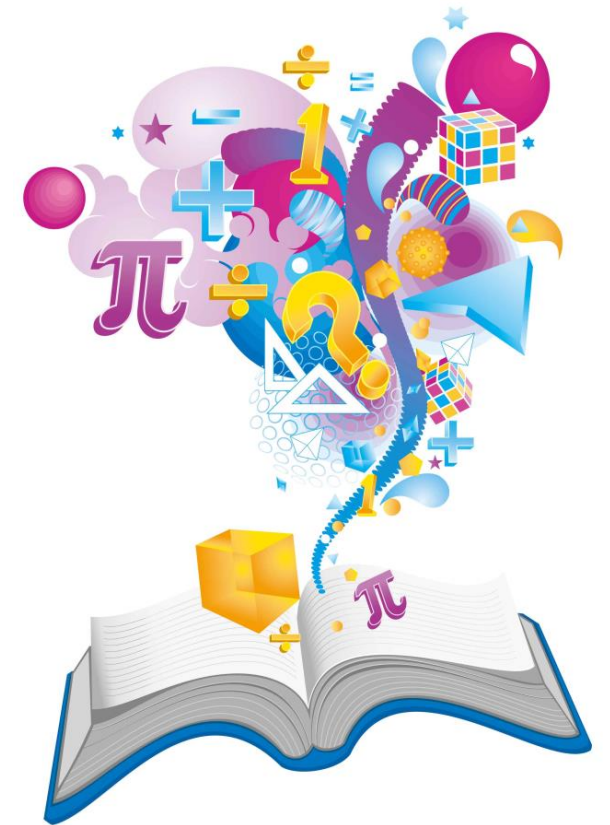


REVISING FOR MATHS



POSITIVITY



Think Positive

A proactive approach is needed.

This means doing maths on a regular basis.

(Little and often is better than cramming).

This can be

- topic based worksheets
- mixed work sheets
- past papers



PRACTICE, PRACTICE, PRACTICE!

- Complete questions.

Cobettmaths has textbook questions, exam questions, answers and supporting videos.

Dr Frost = hwk + other great resources.

- <https://mathsmadeeasy.co.uk/gcse-maths-revision/>
(There are lots of other useful websites too).

- Know their areas to develop – work on these rather than reviewing what is already known.

Complete flash/revision cards as they go, so they can keep re-testing themselves on key areas.

the**MORE**
YOU**PRACTICE**
THE**BETTER**
YOU**GET**

DR FROST LINKED TO ADVANCED INFO

PAPER 1

Every Topic on the 2022 Advanced Information
AQA Revision Checklist (Foundation)



Number

- Four Operations ☐
- Negative Numbers ☐
- Order of Operations ☐
- Estimation ☐
- Arithmetic ☐
- Fraction of a Number ☐
- Laws of Indices ☐
- Standard Form Conversions ☐
- Standard Form Calculations ☐
- Inequality Notation ☐
- Systematic Listing ☐

Ratio & Proportion

- Length Conversions ☐
- Percentage of an Amount ☐
- Fractions Less than 1 ☐
- Simplifying Ratio ☐
- Ratios as Fractions ☐
- Cost Problems ☐
- Density ☐

Algebra

- Linear Equations ☐
- Recognise Graphs ☐
- Plot Graphs ☐
- Linear Graphs ☐
- Intersection of Lines ☐
- Interpret Graphs ☐
- Formulae ☐
- Nth term of a Sequence ☐
- Using nth terms ☐

Geometry

- Parts of a Circle ☐
- Types of Triangle ☐
- Translations ☐
- Perimeter ☐
- Sector of a Circle ☐
- Angles in a Triangle ☐
- Construction Regions ☐

Probability

- Probability Problems ☐
- Venn Diagrams ☐

Statistics

- Two Way Tables ☐
- Averages Problem ☐
- Outliers ☐

www.thegcsemathstutor.co.uk

Revision Videos

Everything you need
to get a Grade 5
(Higher & Foundation)



Everything you need
to get a Grade 6-9
(Higher Only)



Formula Videos

All the GCSE Maths
Formulas Grade 5+
(Higher & Foundation)



All the GCSE Maths
Formulas Grade 6-9
(Higher Only)



Paper 1 (Non Calc)

N. Four Operations
 N. Negative Numbers
 N. Order Of Operations
 N. Estimation
 N. Arithmetic (Of Fractions)
 N. Fraction Of Amount
 N. Laws Of Indices
 N. Covertng (Standard Form)
 N. Calculation (Standard Form)
 N. Inequality
 N. Systematic Listing
 N. Linear Equations
 N. Recognise (Graphs)
 N. Plot (Graphs)
 N. Linear Graph
 N. Intersection of lines
 N. Interpret (Graphs)
 N. Formula (Reasoning)
 N. Sequence Rule (to find a term)
 N. Lengths (Conversation)
 N. Percentage Of An Amount
 N. Fractions less than 1
 N. Simplest Form (Ratio)
 N. Ratio To Fraction
 N. Cost Problem
 N. Density
 N. Naming Parts Of A Circle
 N. Types Of Triangle
 N. Translation

Paper 2 (Calc)

N. Order Of Operations
 N. Fraction Of a Number
 N. Improper Fraction
 N. Fraction To Decimal
 N. Number Line Decimal
 N. Number Problem
 N. Prime Number
 N. Cube Number
 N. Decimal Numbers
 N. Inequality
 N. Linear
 N. Equivalent Expressions
 N. Terms
 N. Multiply Out
 N. Factorisation
 N. Coordinates
 N. Midpoint Of A Line
 N. Point On A Line
 N. Intercept Of A Line
 N. Gradient Of A Line
 N. Equation Of A Line
 N. Time
 N. Ratio and Percentage
 N. Percentage Increase
 N. Percentage Decrease
 N. Ratio in the form 1:n
 N. Scale Diagrams
 N. Better Value
 N. Ratio To Percentage

Paper 3 (Calc)

N. Place Value
 N. Factor
 N. Multiple
 N. HCF
 N. Error Interval
 N. Calculating With Laws Of Indices
 N. Money Problem
 N. Units Of Measure
 N. Number Machine
 N. Simplification (Algebra)
 N. Substitution
 N. Formula
 N. Roots
 N. Turning Points
 N. Arithmetic (Sequences)
 N. Geometric Sequences
 N. Nth Term
 N. Converting Between Lengths
 N. Time
 N. Percentage Increase
 N. Fraction To Percentage
 N. Share Into A Ratio
 N. Ratio Problem
 N. Interpretation
 N. Ratio To Graph
 N. Average Speed
 N. Name Of Shapes
 N. Regular Polygons
 N. Line Of Symmetry

Key Skills

- ▶ **K432: Laws of indices for multiplying powers.**
[Watch Video \(2 mins\)](#) [Show Example](#) [Set a Task](#)
[Generate Worksheet](#)
- ▶ **K433: Laws of indices for dividing powers.**
[Watch Video \(2 mins\)](#) [Show Example](#) [Set a Task](#)
[Generate Worksheet](#)
- ▶ **K434: Laws of indices for raising a power to a power.**
[Watch Video \(1 min\)](#) [Show Example](#) [Set a Task](#) [Generate Worksheet](#)
- ▶ **K436: Raise a number to a negative power.**
[Watch Video \(1 min\)](#) [Show Example](#) [Set a Task](#) [Generate Worksheet](#)
- ▶ **K437: Raise a fraction to a negative power.**
[Watch Video \(2 mins\)](#) [Show Example](#) [Set a Task](#)
[Generate Worksheet](#)

Practice

Practice

Practice

Practice

Practice

Practise a mixture of Key Skills

Exam Practice

- ▶ **E165: Use laws of indices for multiplying powers, dividing powers and raising a power to a power. Deal with a power of 0.**
[Watch Video \(9 mins\)](#) [Browse Questions](#) [Generate Worksheet](#)
- ▶ **E166: Deal with negative indices.**
[Watch Video \(7 mins\)](#) [Browse Questions](#) [Generate Worksheet](#)
- ▶ **E263: Deal with fractional indices.**
[Watch Video \(10 mins\)](#) [Browse Questions](#) [Generate Worksheet](#)

★★ 0/2 Topic Medals

Practice

Topic Test

★★ 0/2 Topic Medals

Practice

Topic Test

★★ 0/2 Topic Medals

Practice

Topic Test

Unit Test

Feeling confident? Check your understanding of this unit, using Key Skill questions.

Start

PRACTICE, PRACTICE, PRACTICE!

...for each question they complete – in class and outside of class

Treat each and every question like a real exam question – this will help them to get better at transferring their knowledge and skills from their head, to paper. It will also help them to present their work in a logical and neat manner (which may increase the amount of marks awarded).

the**MORE**
YOU**PRACTICE**
THE**BETTER**
YOU**GET**

MEMORY/RETENTION

- Create a cheat sheet with all key information – (topic based or all key rules/formula).
- Use a revision guide/cards at first, then try to replicate the cheat sheet unaided so they remember the key information, without any prompting.
- Create flash cards with key information – get someone to test them to help develop quick recall.

CALCULATORS

KNOW the CALCULATOR!

Bring it to every lesson so they are comfortable using it.

This will help them understand what the calculator can do, and what it cannot do.

UNDERSTANDING WHAT THE QUESTION IS ASKING.

Know what different command words mean.

Common command words are:

Write/state = give a brief answer.

Calculate/Find/Solve = work out (these will always have method marks attached).

Explain = give a written reason for your answer.

Show = provide structured evidence.

UNDERSTANDING WHAT THE QUESTION IS ASKING.... AND CONSIDER WHAT MATHS IS TO BE USED.

- Use the number of marks as a guide to the amount of time to spend on a question.
- Always show ALL of your working out – method marks can frequently be awarded despite an incorrect answer - therefore there is no excuse for leaving questions blank.
- Include appropriate units and round to specified amounts.
- Check answers are sensible.



Top Tips for Effective Maths Revision.



Practice, Practice, Practice.

The best way to revise maths, is to do maths!

How:

1. Past papers
2. Mixed topic exam questions.
3. Topic based exam questions (Know the topic areas that need further development – complete questions on these areas ... don't ignore them).

the **MORE**
YOU PRACTICE
THE **BETTER**
YOU GET

Revision/Flash Cards

Re-test previously learnt topics to keep it fresh.

1. Make revision cards with model answers (The Q on the front and answer on the back).
2. Answer the question again at a later date and check the answer.
3. If incorrect, re-test again the next day, if correct, test again in a week or two.

Cheat Sheets

Remember key formula and facts.

1. Create a mindmap with formula, rules and facts using revision cards, revision guides and classwork.
2. Try to recreate this – use the original to fill any gaps.
3. Repeat until the exams



Over time, you'll remember more and be able to retrieve it more quickly.

Scientific Calculators

Know what the calculators can and cannot do!

- Bring it every lesson.
- Understand how to input all calculation types.
- Know what the key functions are.



Understand what the Question is Asking.

Read questions through fully before starting to ensure understanding of what is being asked.

- Understand command words.
- Include all working out to be awarded method marks.
- Include units where appropriate.
- Check answers are sensible.



General Guidance

- Treat every practice exam question like it's the real thing.
- Explain and discuss methods to others.
- Use the amount of marks as a guide to time spent on each question.
- Attend revision sessions after school.

