GCSE Mathematics

RESPECT - RESPONSIBILITY - READINESS - REFLECTIVENESS - RESILIENCE

Objectives:

- Exam information
- Recommended way to learn Maths
- Sparx
- Other useful resources

Exam information

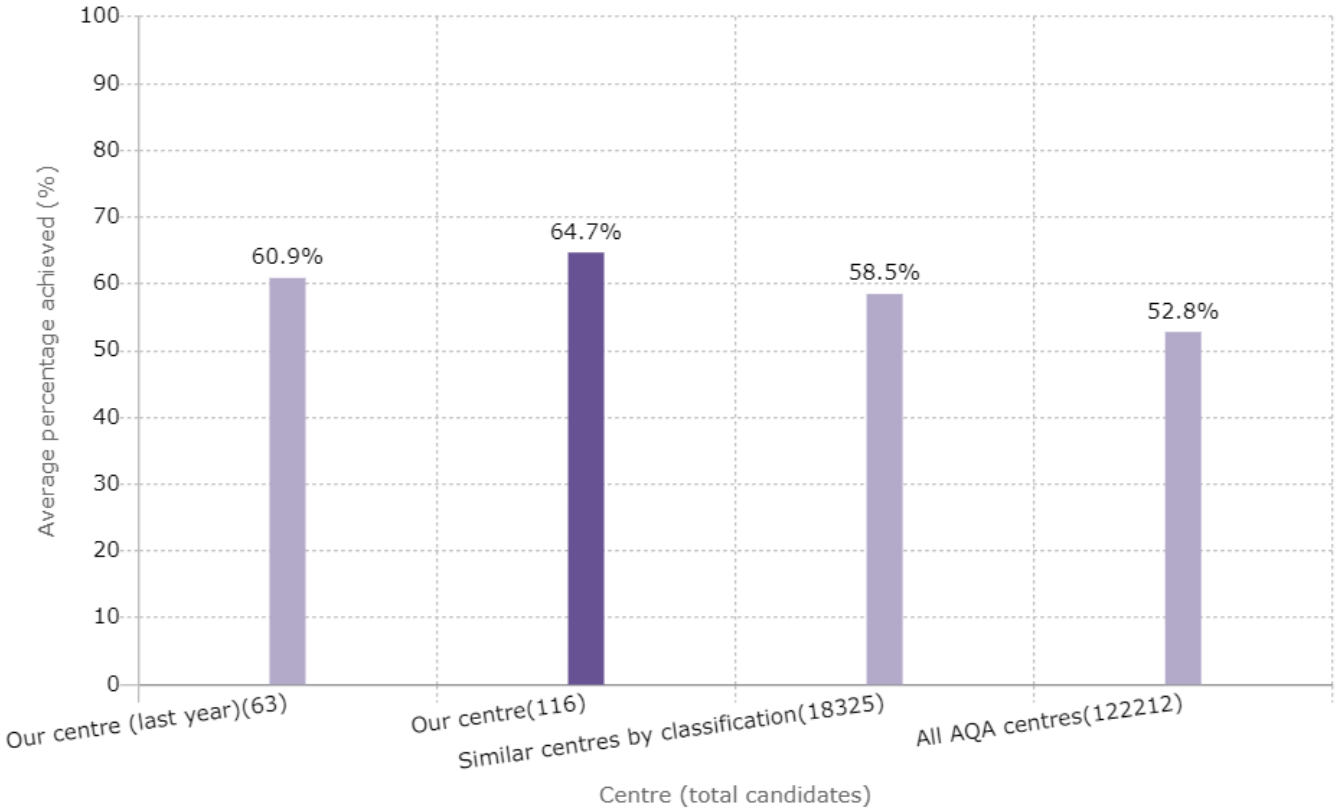
Our exam board is AQA

Three exam papers:
1 is a non-calculator paper
2 are calculator papers

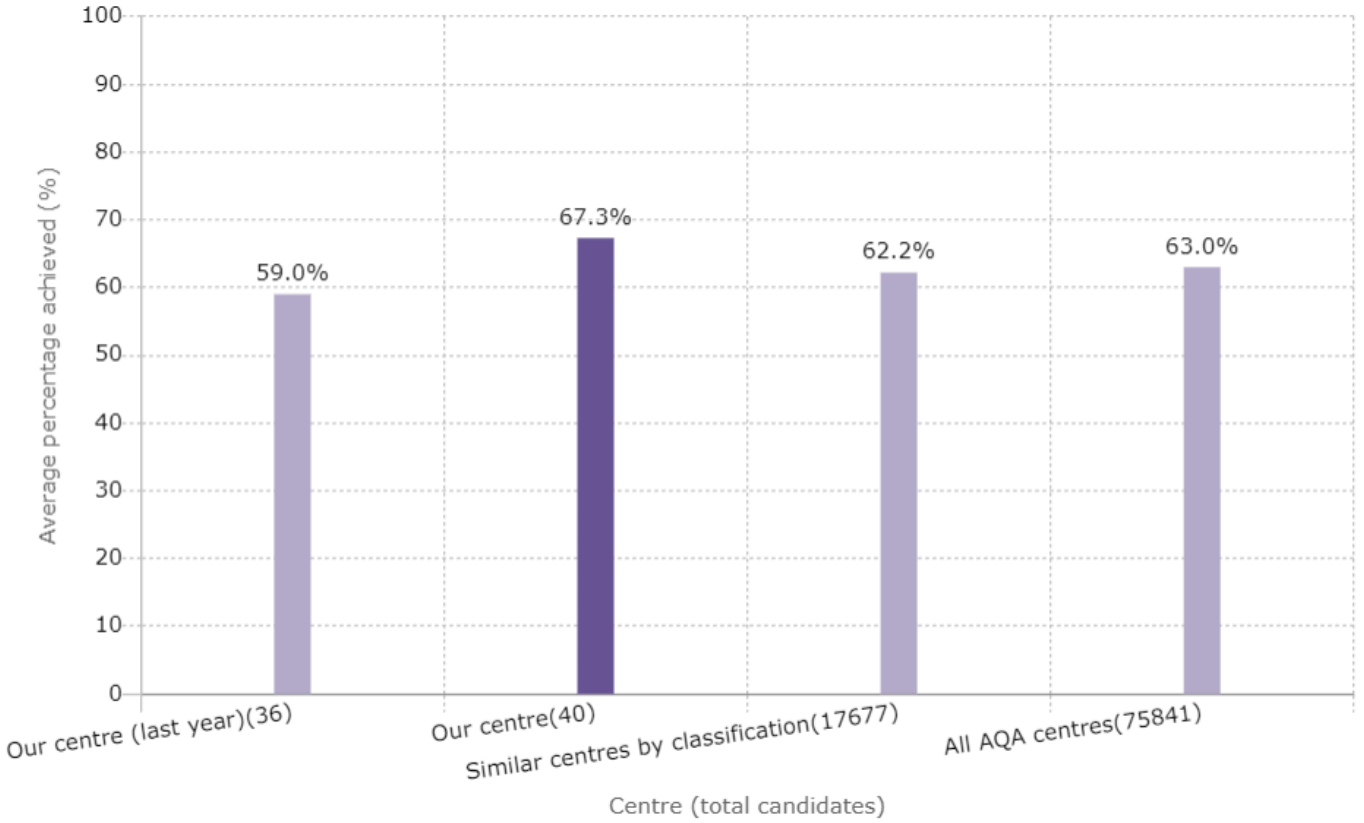
Equipment List

Pen
Pencil
Ruler
Eraser
Protractor
Pair of compasses
Calculator

GCSE June 2024 8300F MATHEMATICS TIER F



GCSE June 2024 8300H MATHEMATICS TIER H



How to learn Maths

We recommend that the best way to revise Maths is to **do** Maths

How do we **do** Maths?

1) Watch videos on a topic

2) Complete questions on a topic

3) Create revision cards

4) Complete questions on Sparx

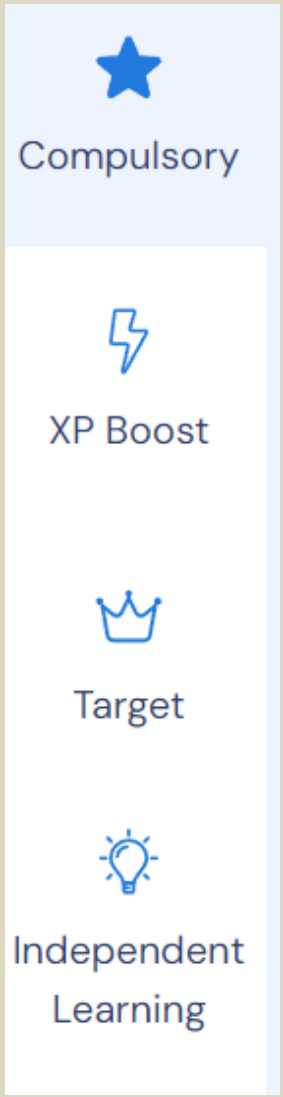
Sparx

Average progress from end of year 10

Average Sparx homework 90%+ = 1.4 grades

200 minutes+ Independent work on Sparx = 1.5 grades

Sparx



- Compulsory homework

- XP Boost

(additional practice on the current topics)

- Target

(topics the student needs to work on)

- Select your own topics

Sparx

Year 10 Higher Assessment 2 Revision List

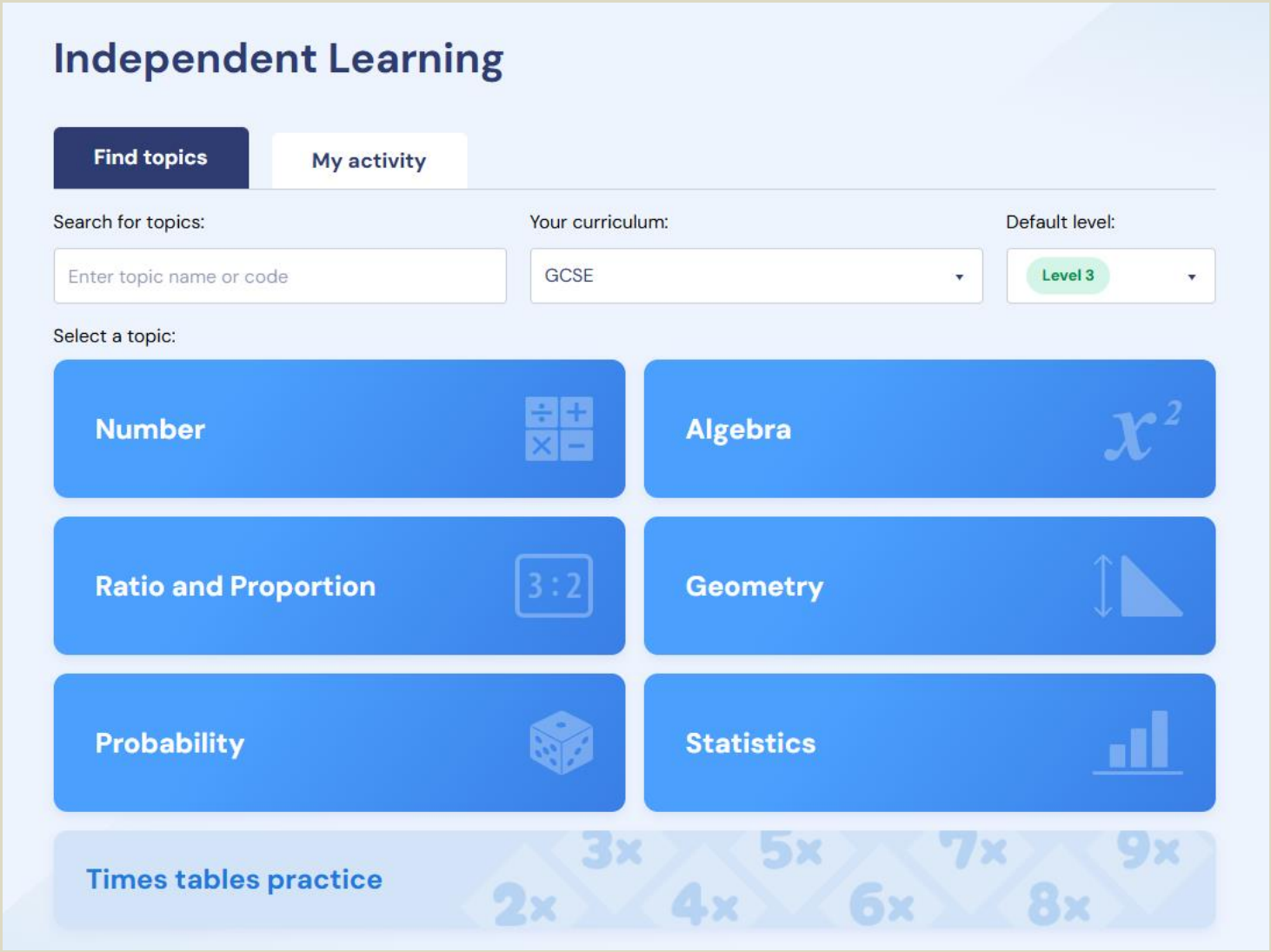
Calculator Topic	Sparx Code
Adding and subtracting fractions	U736
Calculating acceleration from velocity-time graphs	U562
Calculating bearings	U107
Calculating experimental probabilities	U580
Calculating the mean	U291
Calculating with speed	U151
Changing the subjects of formulae	U556
Completing the square, Writing algebraic proofs	U397, U582
Constructing loci, Drawing and interpreting scale diagrams	U820, U257
Converting between fractions, decimals and percentages	U888
Drawing pie charts	U508
Estimating areas under non-linear graphs	U882
Expanding single brackets	U179
Factorising the difference of two squares	U963
Finding bounds for calculations	U587
Finding the equation of a straight line from two points on the line	U848
Finding the volume of prisms	U174

Sparx

Year 10 Foundation Revision List – Assessment 2

Calculator topic	Sparx code
Adding and subtracting fractions	U736
Adding and subtracting with negative numbers	U742
Calculating bearings	U107
Calculating the mean	U291
Calculating with roots and powers	U851
Calculating with speed	U151
Choosing suitable averages and solving problems	U717
Constructing and solving equations	U599
Converting between fractions, decimals and percentages	U325
Converting between ratios, fractions and percentages	U176
Converting units of length, mass and capacity	U388
Converting units of length, mass and capacity	U388
Drawing pie charts	U508
Estimating calculations	U225
Financial terminology and calculations	M901
Finding fractions of amounts with a calculator	U916, U981

Sparx


Independent Learning
Find topics
My activity
Search for topics:
Enter topic name or code
Your curriculum:
GCSE
Default level:
Level 3
Select a topic:
Number
Algebra
Ratio and Proportion
3 : 2
Geometry
Probability
Statistics
Times tables practice
2x
3x
4x
5x
6x
7x
8x
9x

Mixed problems: Finding the area and perimeter of simple shapes –

U993

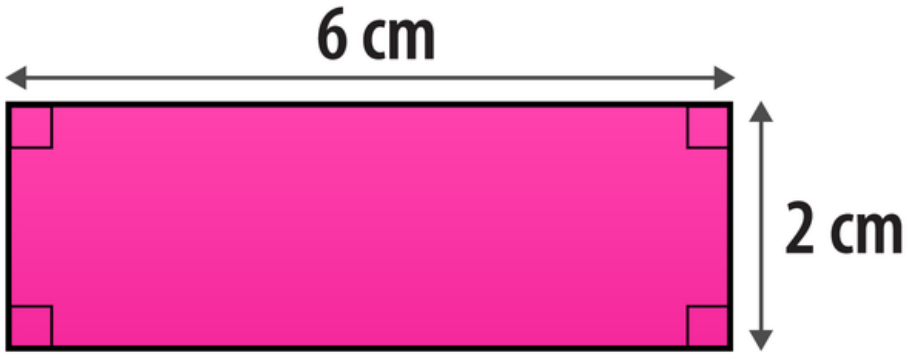
Level 2

Sorry, there are no building blocks available for this topic.

Finding the area and perimeter of rectangles

Introduce	Question 1 Answer	Question 2 Answer	Question 3 Answer	Question 4 Answer	Question 5 Answer
Strengthen	Question 1 Answer	Question 2 Answer	Question 3 Answer	Question 4 Answer	Question 5 Answer
Deepen	Question 1 Answer	Question 2 Answer	Question 3 Answer		

Work out the **area** and **perimeter** of the rectangle below.
(Hint: remember to write down the units of your answers.)



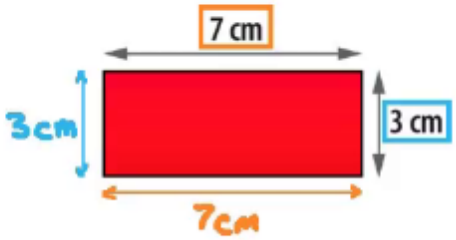
Not drawn accurately

Zoom

Watch video

Answer

Find the **area** and **perimeter** of the rectangle below.



Not drawn accurately

Area is the amount of space inside a 2D shape

area of a rectangle = length × width

area = 7 × 3
= 21

Perimeter is the distance around the edge of a shape

Add up all of the side lengths

perimeter = 7 + 3 + 7 + 3
= 20

Remember units

area = 21 cm^2
perimeter = 20 cm

ans

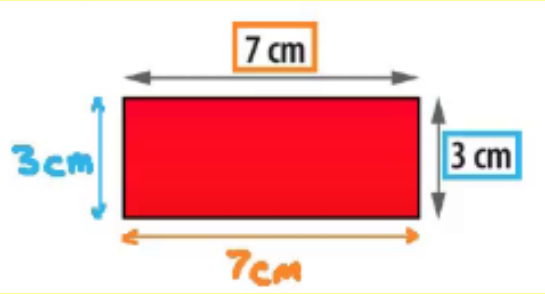
0:00 / 0:56

Close video ×

Create a revision card

Front of the card

Find the **area** and **perimeter** of the rectangle below.



Back of the card

area = 7 × 3
= 21

perimeter = 7 + 3 + 7 + 3
= 20

Sparx

Please take the time to explore the Sparx website and try some questions.

Student login

Username = parent1@ngate.org.uk
Password = ngatepassword1

Other useful resources

Corbettmaths

Videos and Worksheets

Click here for answers

2D shapes: names Video 1 Practice Questions Textbook Exercise

2D shapes: quadrilaterals Video 2 Practice Questions Textbook Exercise

3D shapes: names Video 3 Practice Questions Textbook Exercise

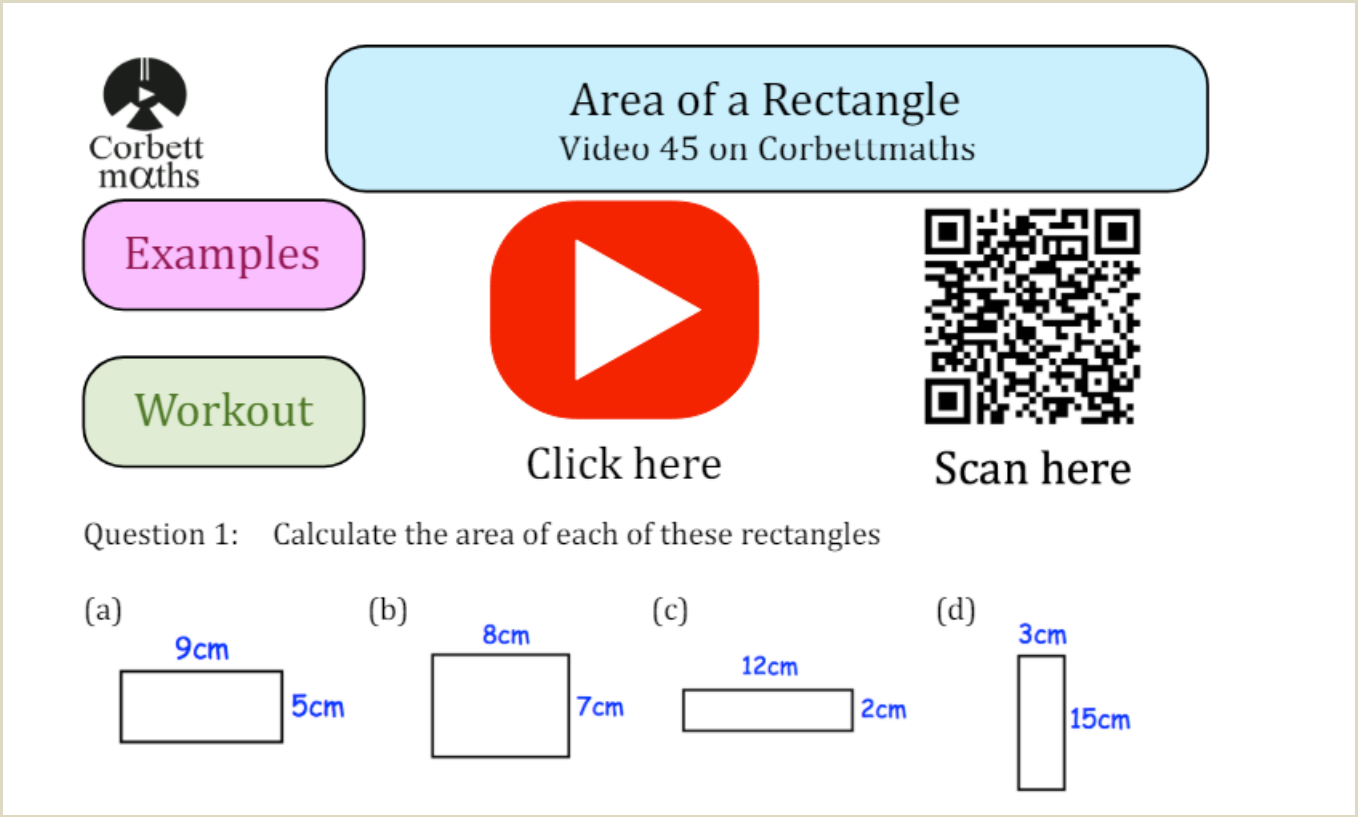
3D shapes: nets Video 4 Practice Questions Textbook Exercise

3D shapes: vertices, edges, faces Video 5 Practice Questions Textbook Exercise

Addition: column method Video 6 Practice Questions Textbook Exercise

Corbettmαths

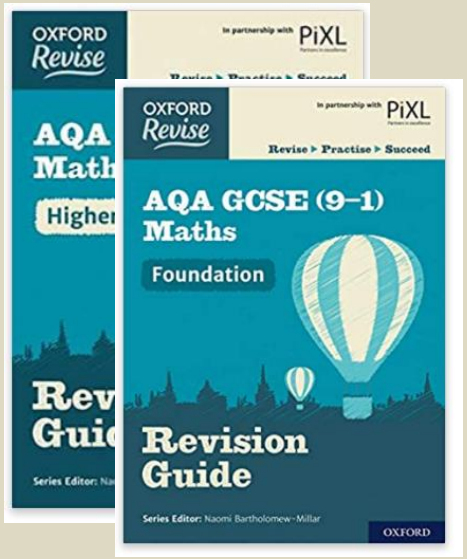
Ctrl and f = search for a topic



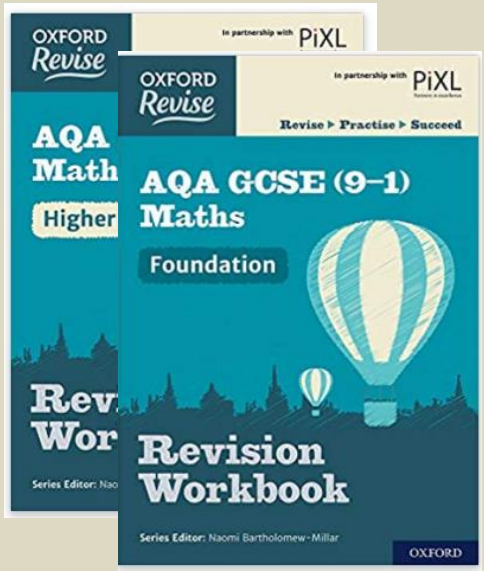
Maths workshop

Every Tuesday 3:15 to 4:15 in MA6 and Comp 2

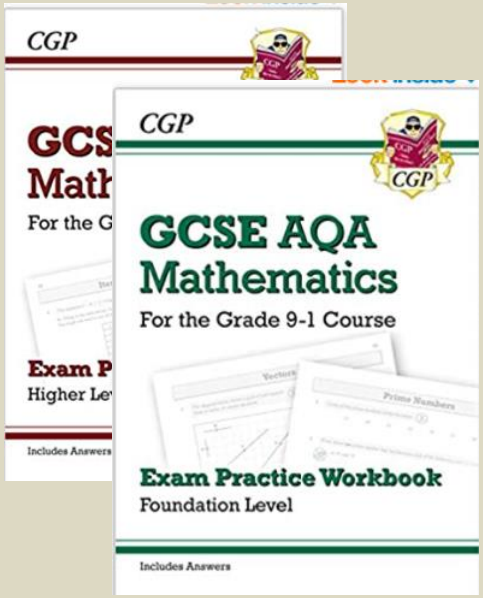
Revision materials



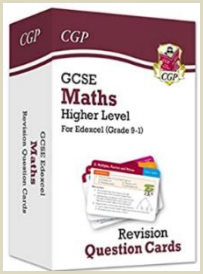
Revision guides



Workbook



Exam practice book



Box of questions cards