



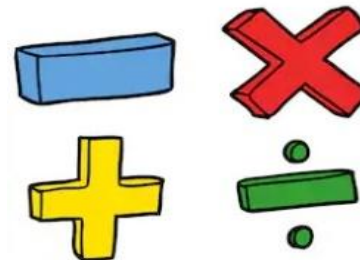
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Year 11 GCSE Mathematics Effective Revision

Mr M Alcock
Head of Mathematics Faculty



The 3 Stages of Revision





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Does it feel like this?





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A Stokesley
School
maths
teacher
once said...





Assessment Structure & Tiers of Entry

Edexcel GCSE Mathematics Foundation Tier: Grades 1-5 Higher Tier: Grades 3-9		
Paper 1	Paper 2	Paper 3
Non Calculator	Calculator	Calculator
1 hour 30mins 80 marks Weighting: 33 ⅓%	1 hour 30mins 80 marks Weighting: 33 ⅓%	1 hour 30mins 80 marks Weighting: 33 ⅓%



GCSE Grade Boundaries

2 0 1 9	Exam					Grade								
	Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
	Edexcel	June	2019	F	240					77%	62%	46%	30%	15%
	Edexcel	June	2019	H	240	83%	70%	57%	45%	33%	22%	16%		

2 0 2 2	Exam					Grade								
	Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
	Edexcel	June	2022	F	240					72%	56%	42%	28%	13%
	Edexcel	June	2022	H	240	81%	69%	57%	43%	30%	16%	9%		

2 0 2 3	Exam					Grade								
	Board	Month	Year	Tier	Total	9	8	7	6	5	4	3	2	1
	Edexcel	June	2023	F	240					76%	61%	45%	30%	14%
	Edexcel	June	2023	H	240	85%	73%	60%	47%	33%	20%	13%		



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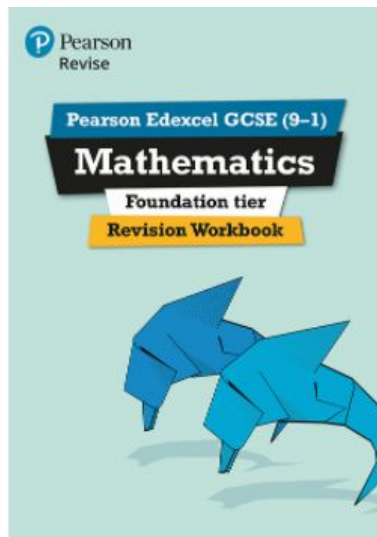
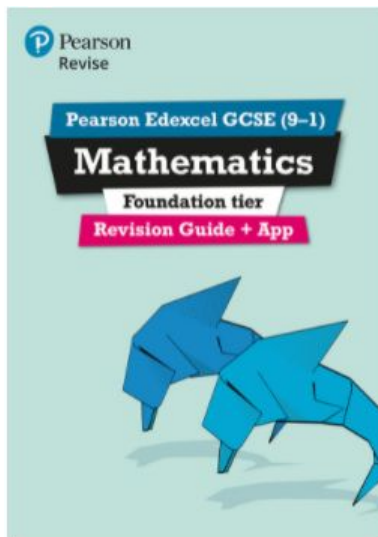
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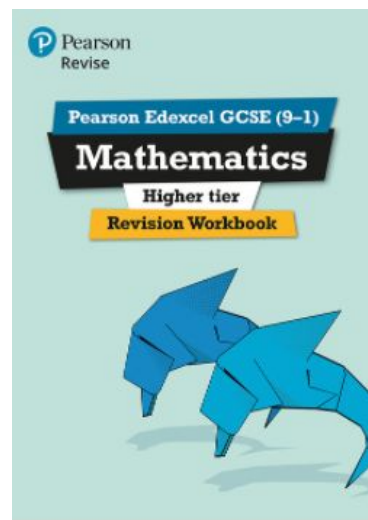
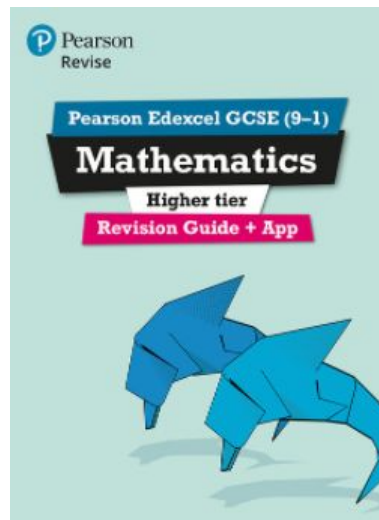
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The Revision Books...



£6.50 for the pair





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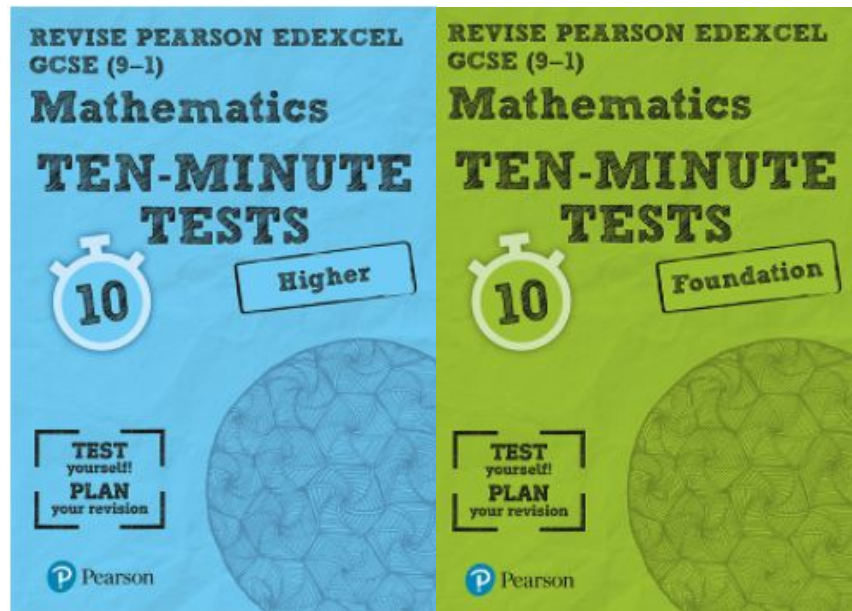
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Ten Minute Tests Book



£3.50



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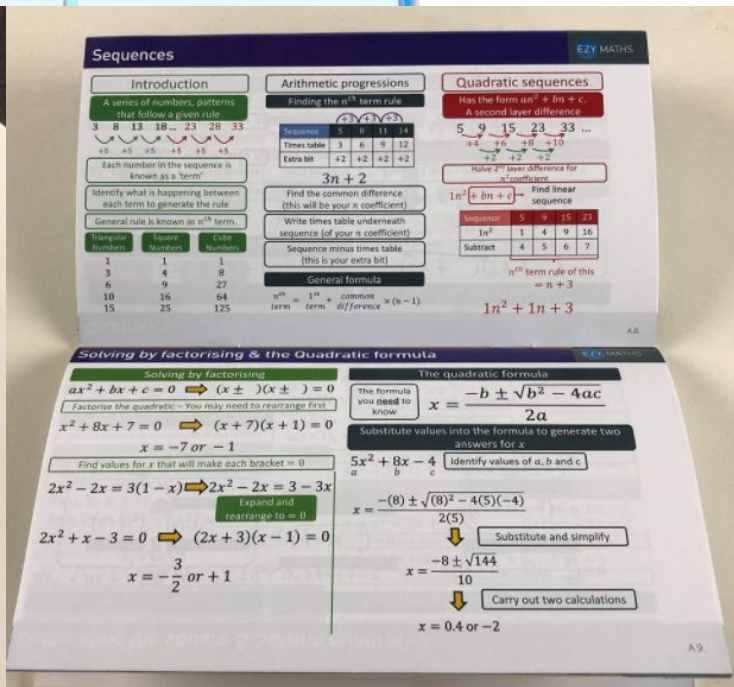
Snapshot Booklet

£5.00

1. Buy Snapshot Booklet

2. Download Zappar App

3. Open Zappar





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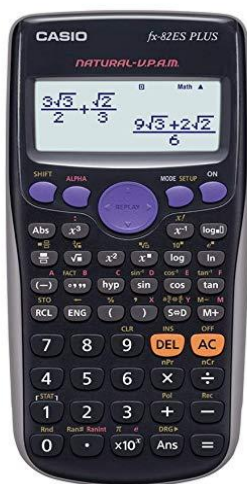
Casio Calculator - ESSENTIAL

Can be purchased from
most supermarkets

OR

Student Services sells
them for £9.65.

2/3 of GCSE allows
calculator!



Discontinued Models – FINE!

New Model – FINE!

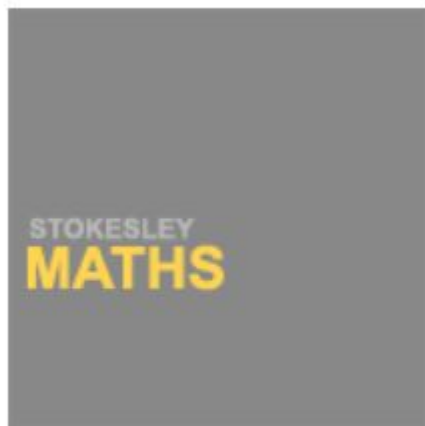


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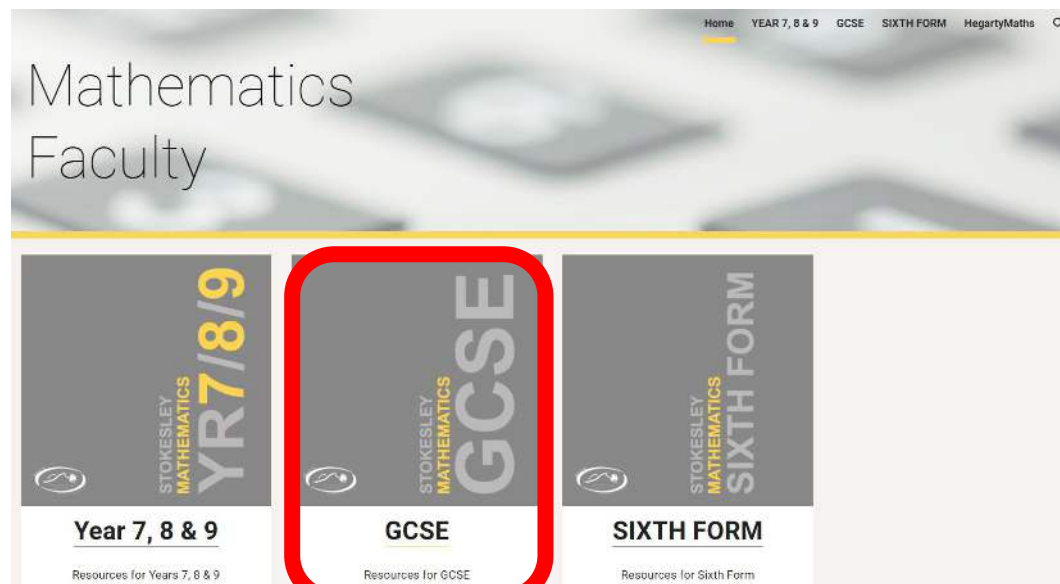
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Digital Curriculum



Maths





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STOKESLEY
MATHEMATICS
GCSE

Year 10

Block 1: Basic Number

Block 2: Indices

Block 3: Basic Algebra

Block 4: Perimeter, Area and Volume

Block 5: Angles

Block 6: Factorising

Block 7: Fractions

Block 8: Pythagoras

Block 9: Equations and Inequalities

Block 10: Expressions and Substitution

Block 11: Sequences

Year 11

Block 22: Proportion

Block 23: Formulae

Block 24: Probability 2

Block 25: Real-Life Graphs

Block 26: Functions

Block 27: Trigonometry

Block 28: Simultaneous Equations

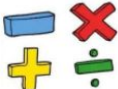

Block 29: Shape and Proportion



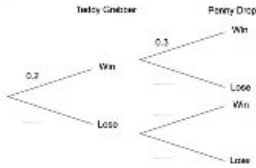
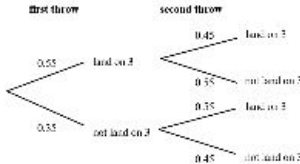
Block 30: Vectors

Block 31: Loci, Mapping and Drawings

Block 32: Statistics



	GCSE Mathematics BLOCK 26 Functions		
Learning Goals			
<p>In this block of work, you should be able to:</p> <ul style="list-style-type: none">• Work with function machines• Use and understand and function notation• Identify reflections and translations of functions<ul style="list-style-type: none">• Find inverse and composite functions			
Independent Block Review Sheets			
Foundation	Higher	Higher Plus	
Success Criteria			
Aiming for 1-3 Foundation	Aiming for 4-5 Foundation/Higher	Aiming for 6-7 Higher	Aiming for 8-9 Higher
Function machines including inverses.	Use and understand function notation.	Identify and sketch translations and reflections of a given graph (or the graph of a given equation). Find the inverse and composite functions and understand notation.	

		Stokesley School – Mathematics Faculty Independent Review Questions Higher - Block 24 – Probability 2 – Part 1		
Question 1		[2 marks]	Question 2	
Sparx Clip: U369		Sparx Clip: U558		
Alex has the following cards: <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">4</div> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">3</div> <div style="border: 1px solid black; padding: 5px; width: 40px; text-align: center;">9</div> </div>		James goes to an arcade. He has one go on the Teddy Grabber. He has one go on the Penny Drop. The probability that he wins on the Teddy Grabber is 0.2. The probability that he wins on the Penny Drop is 0.3. <p>a) Complete the probability tree diagram.</p> <p>b) Work out the probability that James wins on the Teddy Grabber and he also wins on the Penny Drop.</p>		
How many different three-digit numbers can he make?		<div style="text-align: right;">  </div>		
Question 3		[2 marks]	Question 4	
Sparx Clip: U558		Sparx Clip: U558		
When a <u>biased</u> 6-sided dice is thrown once, the probability that it will land on 3 is 0.55. <p>The <u>biased</u> dice is thrown twice.</p> Lucy draws this probability tree diagram: <div style="margin-top: 10px;">  </div>		There are 9 cubes in a bag. <p>7 of the cubes are red.</p> <p>2 of the cubes are black.</p> <p>Rick takes at random two cubes from the bag.</p> <p>Work out the probability that Rick takes one cube of each colour.</p> <p>You must show your working.</p>		
The diagram is <u>not</u> correct. <p>Write down two things that are wrong with the probability tree diagram.</p>				
1.				
2.				



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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



Geometry



Probability



Statistics





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[Independent learning](#) ▸ Algebra

✓ Algebraic notation

1/1 started

✓ Substituting into expressions and formulae

✓ Simplifying expressions

1/2 started

✓ Brackets

2/8 started

✓ Algebraic fractions

✓ Rearranging formulae

1/1 started

✓ Solving equations

✓ Inequalities

1/7 started

✓ Solving quadratic equations



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Simplifying algebraic fractions by cancelling common factors


Introduce

Question 1

[Answer](#)

Question 2

[Answer](#)

Question 3

[Answer](#)

Question 4

[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](#)

Question 4

[Answer](#)



Sparx Maths

Bookwork code: 2B



Calculator
allowed

The hot drinks sold by a cafe are 5 types of tea and 2 types of coffee.
The cafe also sells 9 types of cake.

- a) If a customer chooses a tea and a cake, how many different combinations are there?
- b) If a customer chooses a hot drink and a cake, how many different combinations are there?

[< Previous](#)

[Watch video](#)

[Answer](#)



Sparx Maths

Support video

The cold drinks sold by a cafe are 11 types of milkshake and 9 types of fizzy drink. The cafe also sells 4 types of cookie.

- a) If a customer chooses a milkshake and a cookie, how many different combinations are there?
b) If a customer chooses a cold drink and a cookie, how many different combinations are there?

$$\begin{aligned} \text{a)} \quad & \text{number of combinations} = \text{number of types of milkshake} \times \text{number of types of cookie} \\ & = 11 \times 4 \\ & = 44 \end{aligned}$$

b) Work out the total number of types of cold drink

$$11 + 9 = 20$$

$$\begin{aligned} & \text{number of combinations} = \text{number of types of cold drink} \times \text{number of types of cookie} \\ & = 20 \times 4 \\ & = 80 \end{aligned}$$

answer: a) 44 b) 80

0:00 / 1:08

Close video X



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Closes the gaps in knowledge.



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GCSE Revision

A Level Revision

New Spec A Level

GCSE Exam Papers

A Level Exam Papers

Resources



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Corbett Maths



Corbettmαths

Welcome

Videos and Worksheets

Primary

5-a-day

More

Revision Cards

Welcome

5-a-day

Videos

Worksheets

Practice Papers

Further Maths

Conundrums

Primary

Revision Cards

GCSE Revision Cards





Exam Dates – Summer 2024

Provisional Dates

GCSE Mathematics 2024

Paper 1 – Non-Calculator	- Thursday 16 th May (AM)
Paper 2 – Calculator	- Monday 3 rd June (AM)
Paper 3 – Calculator	- Monday 10 th June (AM)

All papers 1 hour 30 minutes.



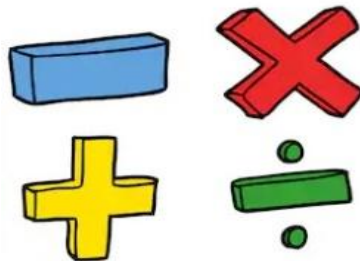
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Thank you for listening!

malcock@stk.arete.uk

Mr M. Alcock

Head of Mathematics Faculty