

# GCSE Revision Webinar (2) for Mathematics

Effective preparations and revision techniques for GCSE mathematics 2022 01-03-22 : 1530

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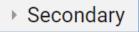


#### https://maths.hias.hants.gov.uk



**HIAS Maths Moodle** 





GCSE 2022



Edexcel Foundation Exam aid formula sheet 2022
Edexcel Higher Exam aid formula sheet 2022
GCSE Mathematics - Advance Information Guidance 2022
OCR Advance Information for Summer 2022
Edexcel GCSE Mathematics Advance Information
AQA Advance Information for Summer 2022







#### Material covered in the last meeting

(available in the GCSE 2022 folder in open resources on the HIAS maths moodle

- Advance information on exam content from (AQA, Edexcel, OCR)
- A quick look at the formula sheets (F and H)
- Cognitive Psychology: six strategies for effective learning and remembering
- Brief discussion around exam preparation and revision







# Agenda



- All info in Open Resources
- Cognitive strategies for learning and remembering
- Flash cards
- Mind-maps
- Variation using a past question
- Low stakes testing resources
- Task design for access and success
- Other resources
- Final discussion and sharing









# This webinar is to support your thinking around how best to prepare your students for GCSE maths 2022:

GCSE exams are being adapted this year by Ofqual (the exams regulator) and the DfE

Part of a larger 'safety net' to reduce the impact of lost learning due to the coronavirus

The adaptations for GCSE maths for 2022 are:

- A formula sheet which will be available in the exam
- Advance notice of certain topics that will appear on the exam papers
- If you haven't done so already, go to your exam board's website and download this information
- Make sure your students are familiar with the formula sheet and can select and use the information appropriately
- They will get a new copy in each exam, so fine to give everyone their own copy and encourage them to make notes/write on this version as required.



#### Foundation Tier Formulae Sheet

#### Perimeter, Area and Volume

Where *a* and *b* are the lengths of the parallel sides and *h* is their perpendicular separation:

Area of a trapezium =  $\frac{1}{2}(a+b)h$ 

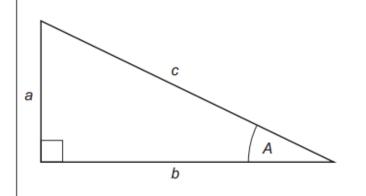
Volume of a prism = area of cross section  $\times$  length

Where *r* is the radius and *d* is the diameter:

Circumference of a circle =  $2\pi r = \pi d$ 

Area of a circle =  $\pi r^2$ 

#### Pythagoras' Theorem and Trigonometry



**Compound Interest** 

Where P is the principal amount, r is the interest rate over a given period and n is the number of times that the interest is compounded:

Total accrued =  $P\left(1 + \frac{r}{100}\right)^n$ 

In any right-angled triangle where *a*, *b* and *c* are the length of the sides and *c* is the hypotenuse:

$$a^2 + b^2 = c^2$$

In any right-angled triangle *ABC* where *a*, *b* and *c* are the length of the sides and *c* is the hypotenuse:

 $\sin A = \frac{a}{c}$   $\cos A = \frac{b}{c}$   $\tan A = \frac{a}{b}$ 

#### Probability

Where P(A) is the probability of outcome *A* and P(B) is the probability of outcome *B*:

P(A or B) = P(A) + P(B) - P(A and B)

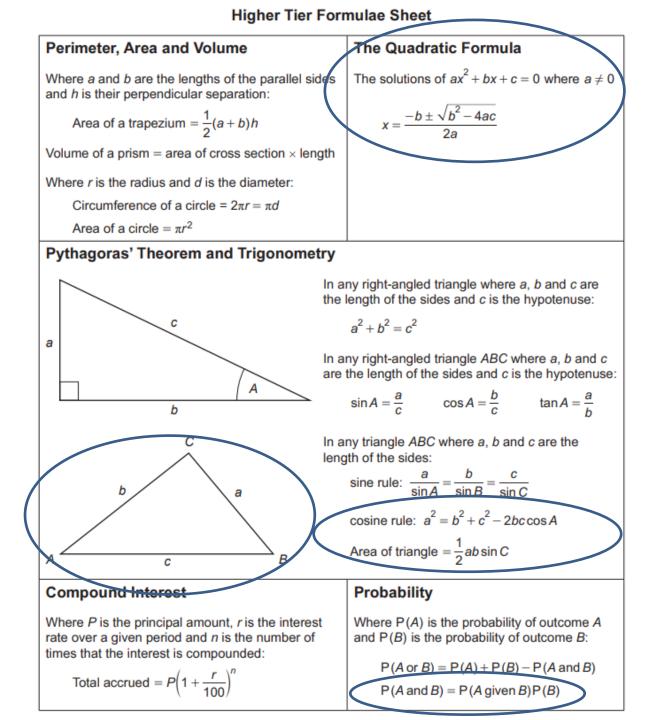


# Taken from OCR website Nov2021

**Opposite** 

Adjacent

Hypotenuse





# Taken from OCR website Nov2021

A reminder.....



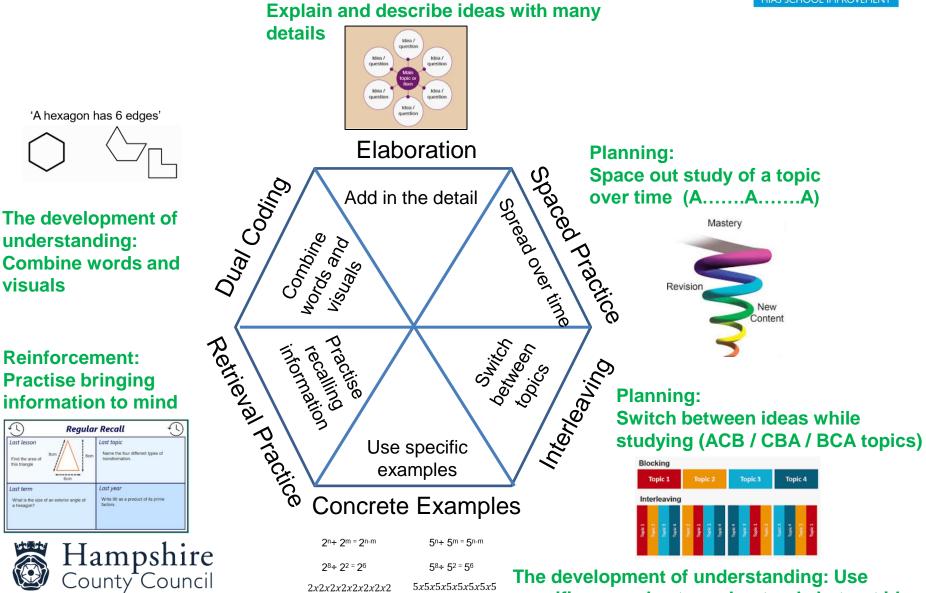
Advance information:

- can be used flexibly by centres to achieve its purpose of supporting revision. Advance information should not, however, be used to narrow teaching and learning.
- can be used by teachers in supporting their students' revision and referred to by students in their revision and final examination preparation.
- cannot be brought into the examinations.
- is not at a level that allows questions to be predicted or answers prepared.
- students' preparation for examinations should continue to focus on knowledge and understanding that can be applied appropriately in the context of unseen examination questions.



### Cognitive Psychology: Six strategies for effective learning and remembering





5x5

2x2

The development of understanding:

specific examples to understand abstract ideas

#### MOCK exam question level analysis : Be organised

Where did your students score least well?

Tailor your teaching and revision lessons so that you can teach the weaknesses and revise the strengths.

Make a list and look for connected topics

Make a timed plan for your lessons and to guide students with a schedule for their own independent work.

Multiplication facts Histograms Frequency tables (Foundation) Geometric progression Rounding including upper lower bounds Indices/index/standard form Speed time graphs Formula – recall of, rearranging, substituting *Multi-step problems* Inequalities (Higher) Converting units Negative numbers within substitution etc. Graphs Fractions – especially mixed numbers

## **PREDICTIONS AND TARGETS : BE PROACTIVE**



Be clear about where you and your students need to be by the end of April. What percentage of grades 4 and 5+ do you want? How many pupils is that? What classes are they in?

Be clear about the strategies you will use for specific groups of students.

- Interventions:
- Maths tutor group
- Use of HLTA
- Collapsed class taught by one good practitioner with others to support
- Rotation teaching (pupils go to the topic they need more practice with)
- Extra revision sessions in various forms
- · Maths teachers allocated two or three 'key' pupils to mentor
- Use of connected past questions
- Use of practice papers
- Other strategies ?







## **Using Flash Cards for Revision**



What are the strategies that work best ? (Spaced practice, Retrieval practice, Interleaving)

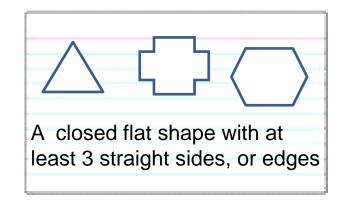
Flashcards are a valuable revision tool.

They allow a student to test their knowledge of definitions and key ideas – an essential part of successful exam preparation.

#### What do I mean by flashcards?

Flashcards are sets of small, double-sided cards used to learn and revise details, keywords and vocabulary. They are useful for learning the relationship between two pieces of information You write a question or key term on the front and then the answer or definition on the back.

_	
	What is a polygon?
_	
	County Council







#### Flashcards are for testing not summarising

- Flashcards should be used to test knowledge, not just to condense information.
- Students often list bullet points on flashcards that they carry around with them to reread.
- Rereading notes is a passive learning activity so is not an economical use of revision time.
- Instead, use flashcards as a quick way of testing what is known.
  - 1. On the front of the card, write a key term or question
  - 2. On the back of the card, answer that question or write the definition for the term
  - 3. Try to work out the answer/definition on the front before checking the answer on the back.

What is the lower bound of 38cm to the nearest cm?	

38cm	38.5cm	
		-
.5 ≤ x <	38.5	_
		38cm 38.5cm     .5 ≤ x < 38.5



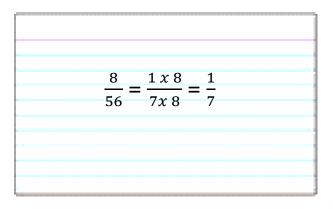


#### One idea, one flashcard



- The goal isn't to fill the flashcards with points to make the most of the space.
- The most effective flashcards include one question followed by one answer (or one term followed by one definition).
- Split up longer questions into smaller, simpler ones. It is easier to process simple, small items of information than complex, wordy ones. You will end up with more flashcards this way, but the learning will be a lot more effective.
- Splitting the information allows each part to be learnt separately at the student's own pace which should save time and improve memory retention.

What is $\frac{8}{56}$ in its simplest	-
terms?	
	-







#### Boost your memory by combining pictures and words

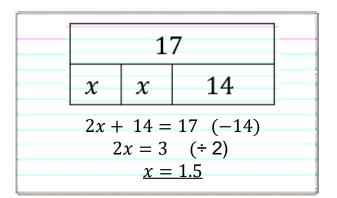


Dual coding theory explains that our brains find it easier to recognise and recall visual inputs with verbal prompts – pictures and sounds are easier to remember than written words.

It takes time to decode and memorise text so pictures that support text work wellespecially in the revision world.

Research suggests that, after three days, someone is likely to remember around 10% of information they read. If an image is added to text this figure increases and up to 65% of information is remembered.

Can I solve $2x + 14 = 17$ ?





#### Use spaced repetition to revise with flashcards

Great revision strategies share the same principle: testing your learning multiple times.

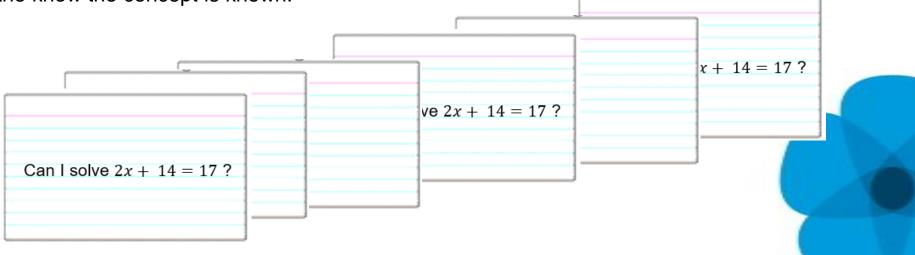


Flashcards are simple to create and quick and convenient for self-testing. The power of flashcards is seen when we allocate time to review them multiple times.

Testing with each flashcard ten times could be a waste of precious revision time. There will be some concepts students struggle to learn and remember, with others they might become confident quickly.

This is where spaced repetition comes in: a technique to help students revise what they need to, when they need to.

Spaced repetition is the technique of testing multiple times, at intervals dependent on how well the know the concept is known.



#### Use spaced repetition to revise with flashcards



The concepts that should be retested most often are those the student is struggling to learners and commit to memory.

The time between these retests should be low.

The concepts the student feels confident with should be retested less frequently.

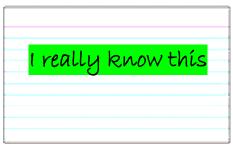
Once confident, the student should retest these flashcards just enough to not forget them. A simple way of implementing this tip is to sort the flashcards as they revise with them.

#### After answering a flashcard, put it into one of three piles:

- I have no clue about this
- I'm not too sure about this
- I really know this

The '*no clue*' pile should be tested soonest. As they retest their knowledge, their flashcards should change piles until (hopefully) all of them are in the '*I really know this*' pile.

I have no clue	I'm not too sure
about this	about this





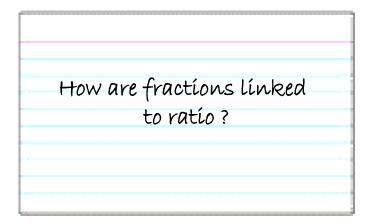
#### Don't just use flashcards

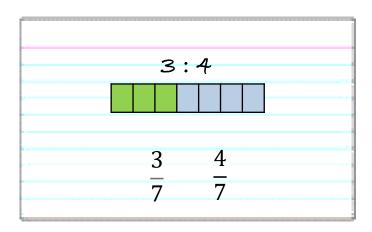
Flashcards are a great revision tool, but they do have disadvantages like every other technique.

Flashcards allow the learner to learn the answers to simple questions and the relationship between two pieces of information.

They don't allow the learner to apply this information to situations, understand it in depth or in a wider context.

You need to add other techniques too.









#### **Other revision techniques**

Mind-maps can illustrate all the key ideas and details of a concept or topic.

Quizzes can test knowledge of broader and deeper ideas.

Practice exam questions allow the learner to apply their knowledge to a situation or example, engage in critical analysis, synthesise ideas to create new understanding and practice for the exam.

For effective revision, using a range of active revision techniques together. Perhaps flashcards, mind-maps, anchor questions with a varied sequence of related problems, low stakes quizzes and .....?

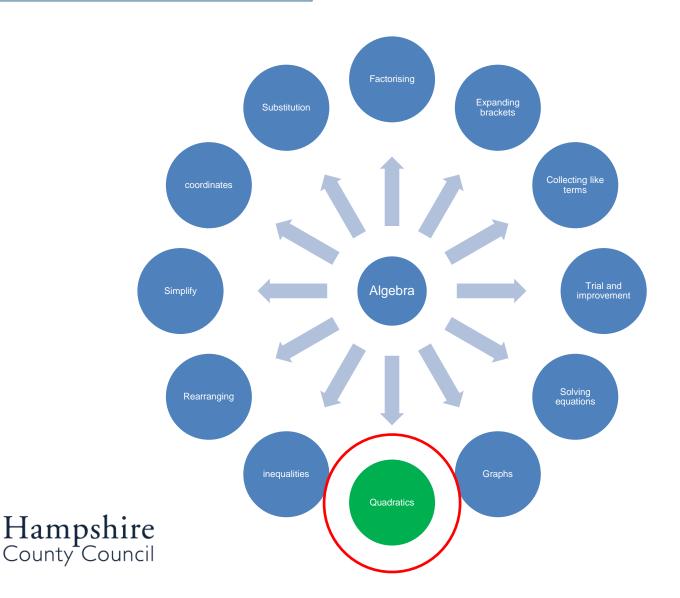




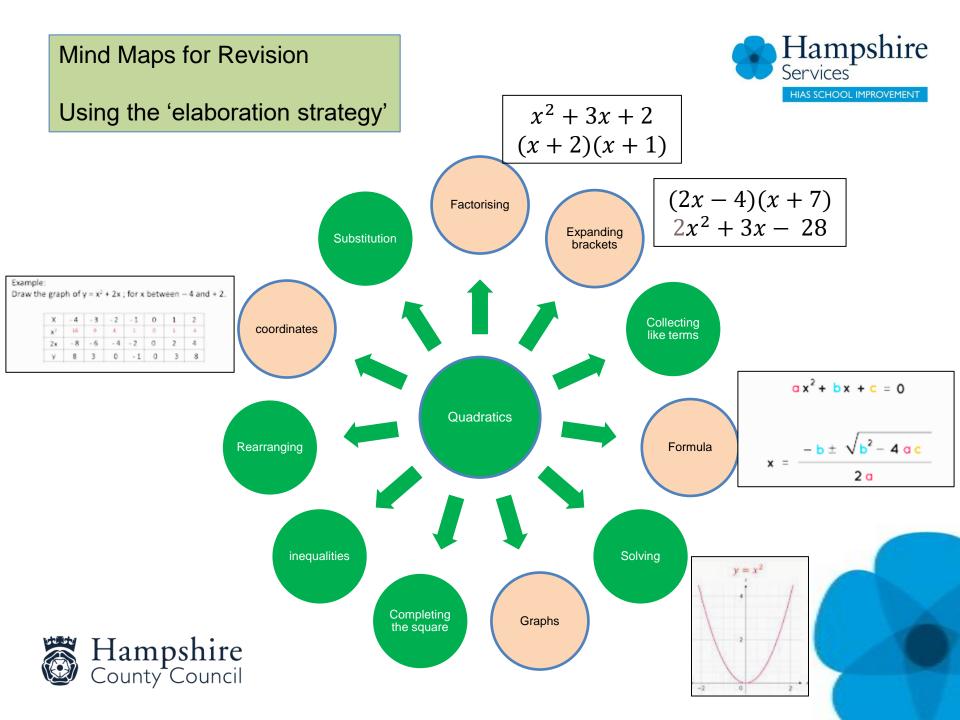
#### Mind Maps for Revision

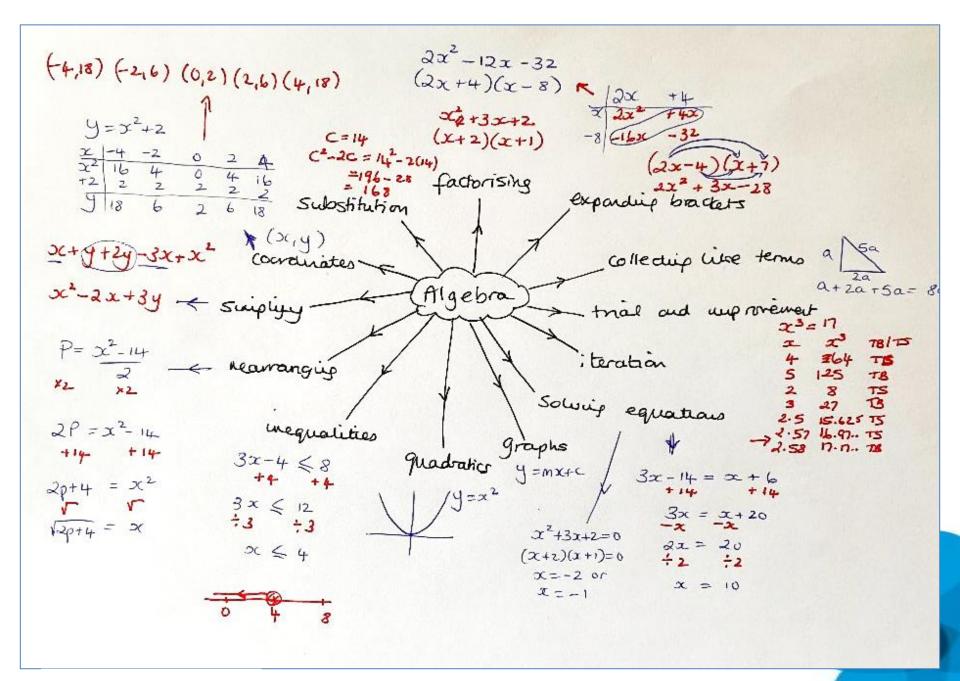
Mind-maps can illustrate all the key ideas and details of a concept or topic.

Using the 'elaboration strategy'



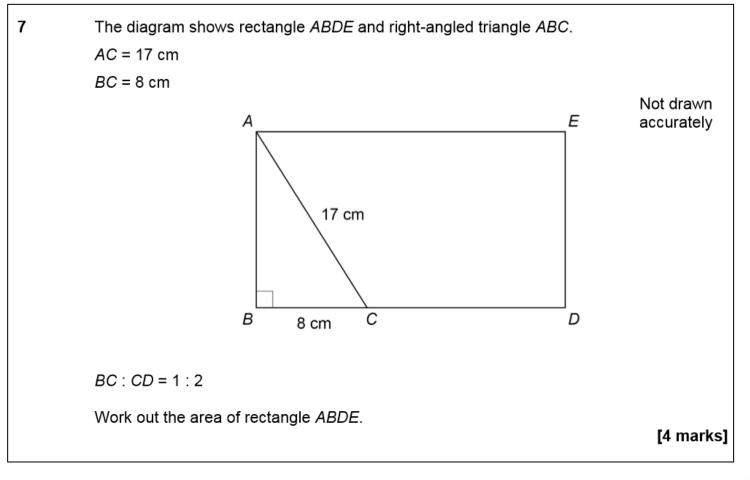








Higher tier : AQA 2019 P2 Q7

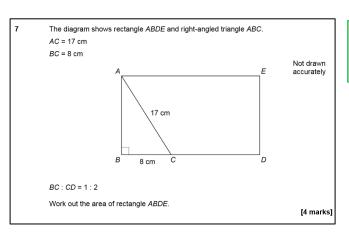




Step 1



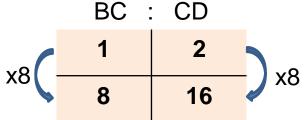
#### Higher tier : AQA 2019 P2 Q7



First: solve the problem to check required prior knowledge. This helps you to **model** the thinking process for learners.

The area of a rectangle is length x width We need to find the length and width of the rectangle

The length is BD = BC + CD We know that BC:CD = 1:2



So, when BC is 8cm, CD is 16cm

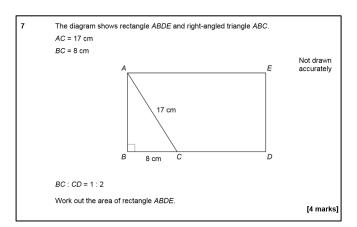
<sup>8</sup> 8 + 16 = 24cm

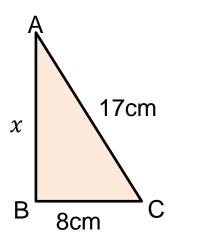
The length of the rectangle is 24cm





#### Higher tier : AQA 2019 P2 Q7





### Step 2

The area of a rectangle is length x width We need to find the length and width of the rectangle

The width of the rectangle is AB

We can use Pythagoras' Theorem

 $x^2 + 8^2 = 17^2$ 

$$x^2 = 17^2 - 8^2$$

$$x^2 = 289 - 64$$

$$x^2 = 225$$

 $x^2 = \sqrt{225}$ 

x = 15 cm

County Council

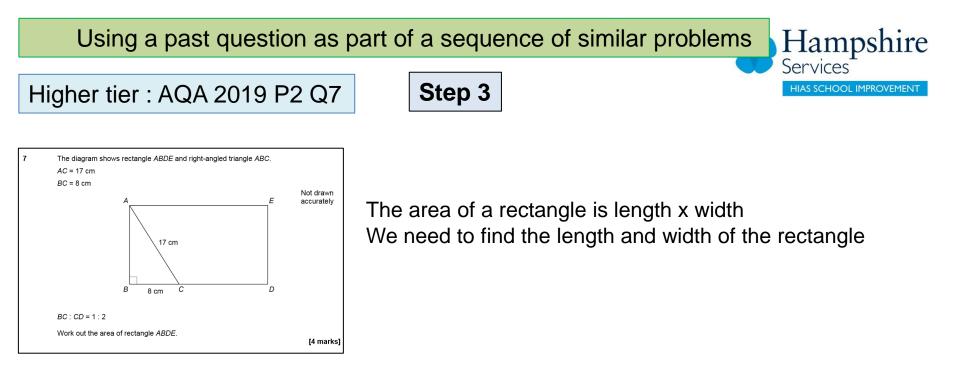
The width of the rectangle is 15cm



Hampshire

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The area of the rectangle is AB x BD

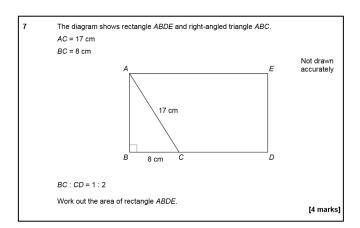
15 x 24 = 260

The area of the rectangle is 260 cm<sup>2</sup>





#### Higher tier : AQA 2019 P2 Q7



Next : Check the mark scheme

This question has a range of alternative methods

You should work through each method to be clear about what you want to teach / revise in advance of the lesson

8 <sup>2</sup> or 64 and 17 <sup>2</sup> or 289	M1	
$\sqrt{17^2 - 8^2}$ or $\sqrt{225}$ or 15	M1dep	oe implies M2 may be seen on diagram
8 × 3 × their 15 or 24 × their 15	M1dep	dep on M2 oe eg (8 + 16) × their 15 or 0.5 × 8 × their 15 × 6
360	A1	SC2 [448.8, 456]



Hampshire

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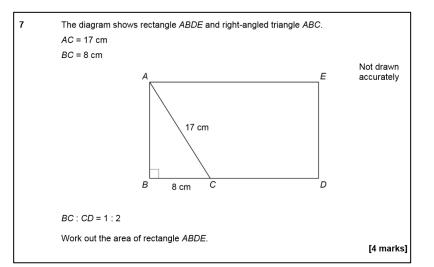
Hampshire Services

### Higher tier : AQA 2019 P2 Q7

or 64 d	Alterna	ative method	d 2				
	$\cos C = \frac{8}{17}$ or $C = [61.9, 62]$ M1			M1	may be seen on diagram		
7 <sup>2</sup> – 8	17 × s	Alternativ	e method 3				
	or [14	$\sin A = \frac{8}{17}$	or A = [28, 28.1]		M1	may be se	een on diagram
3×3×ti or 24×i		17 × cos tr	their [28, 28,1]			may be seen on diagram	
	or [35	or [14.9,	Alternative met	hod 4			
0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			M1	may be seen on diagram		
-		or [357.6 360	1/2 × 8 × 17 × sir or [59.9, 60.1]	× 17 × sin their [61.9, 62] .9, 60.1]		M1dep	oe
County Counci			6 × their [59.9, 6 or [357.6, 362.4	-		M1dep	oe
			360		A1	SC2 [448.8, 456]	



#### Higher tier : AQA 2019 P2 Q7



Example 1: Teacher modelled alongside learners 'having a go'

Discuss ~ 'co-construct'

Now create a sequence of questions that are similar to this one.

Allow learners to work in pairs at first

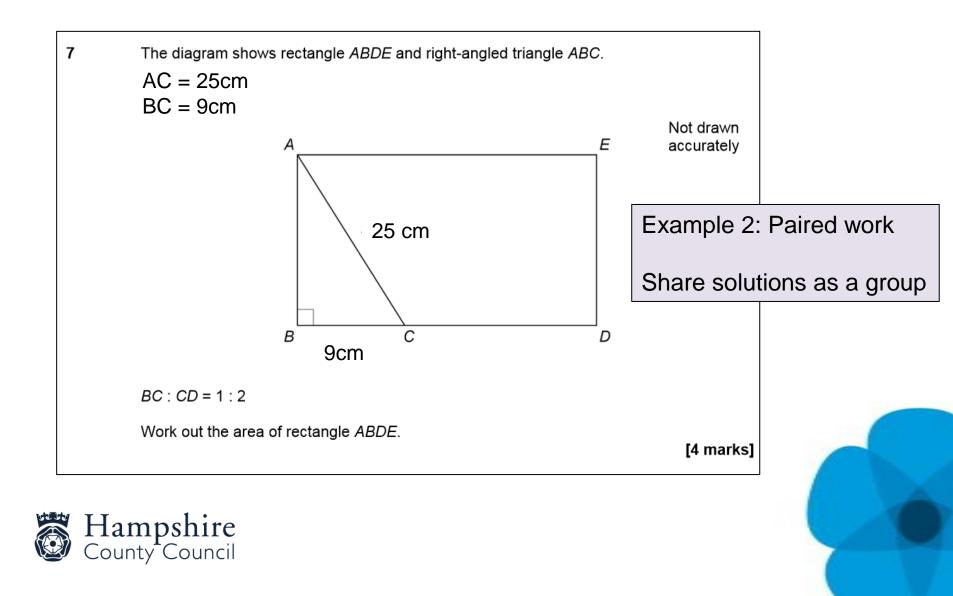
Check methods and solutions together as a class

For the final one, learners work alone

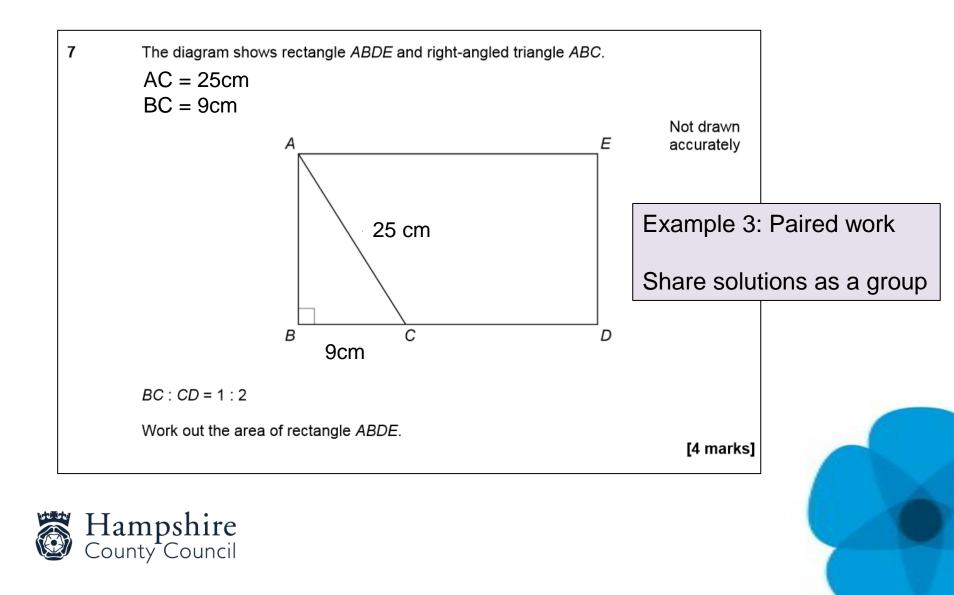
Give them one to do at home (you could save these up until you have several different questions)



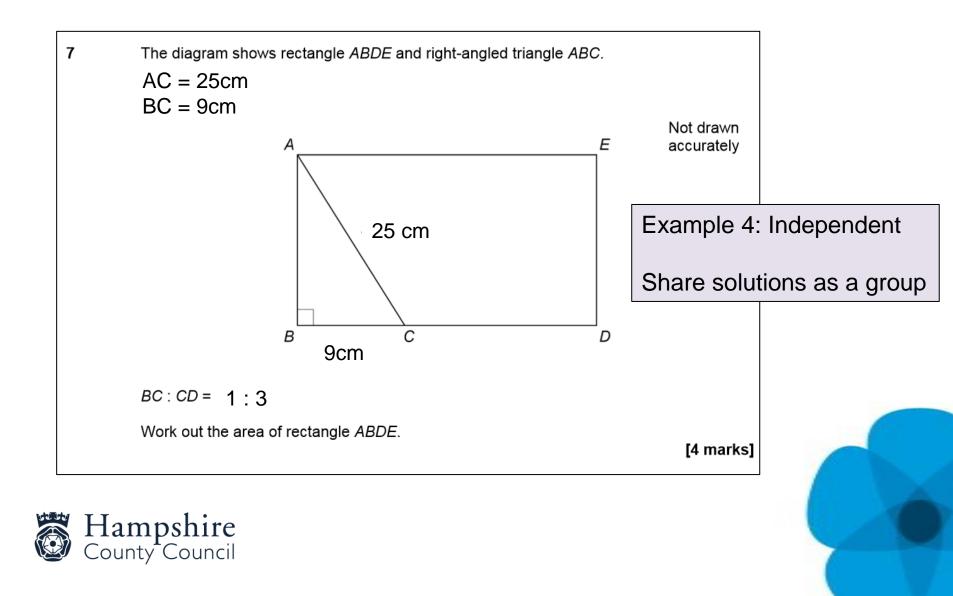




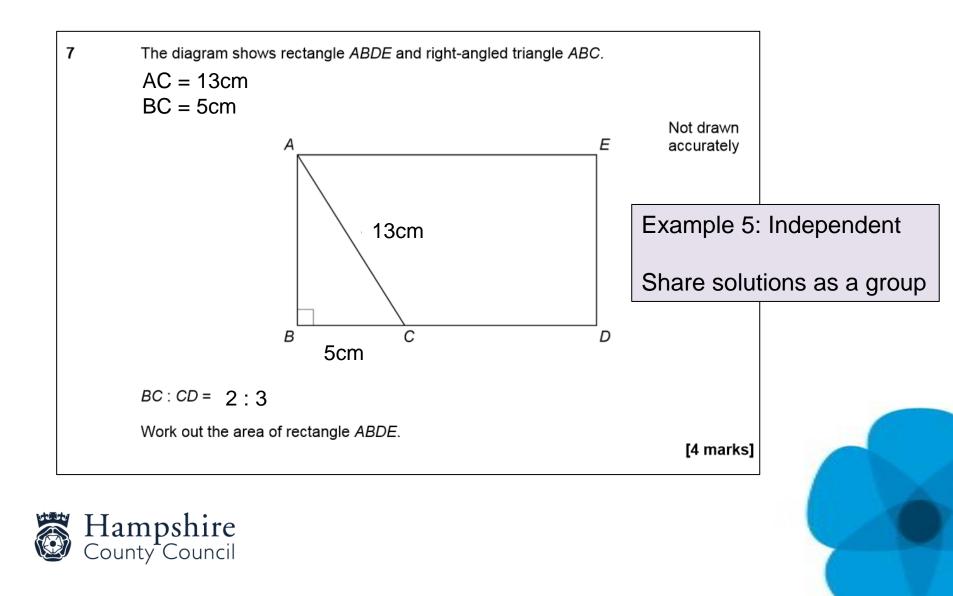




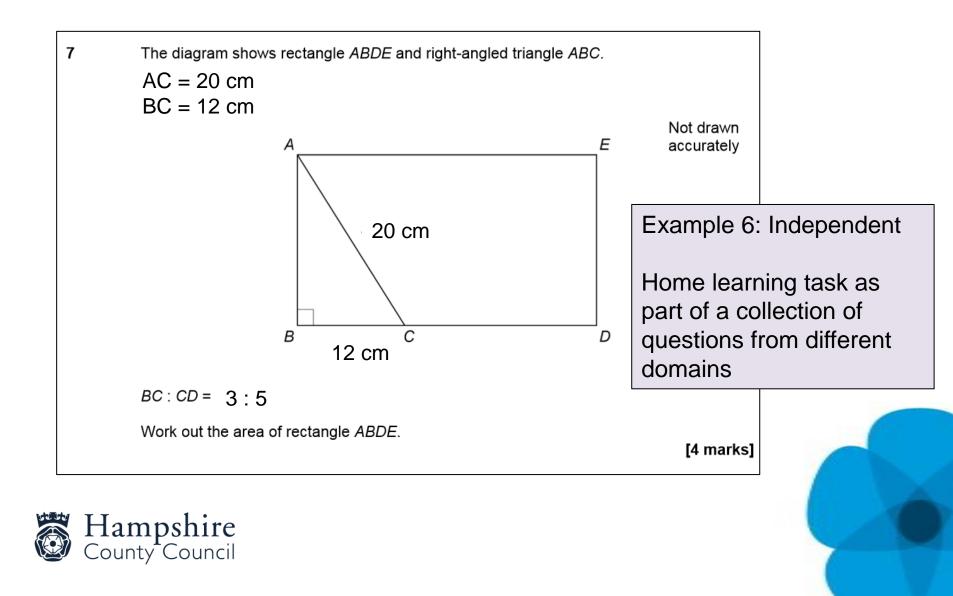






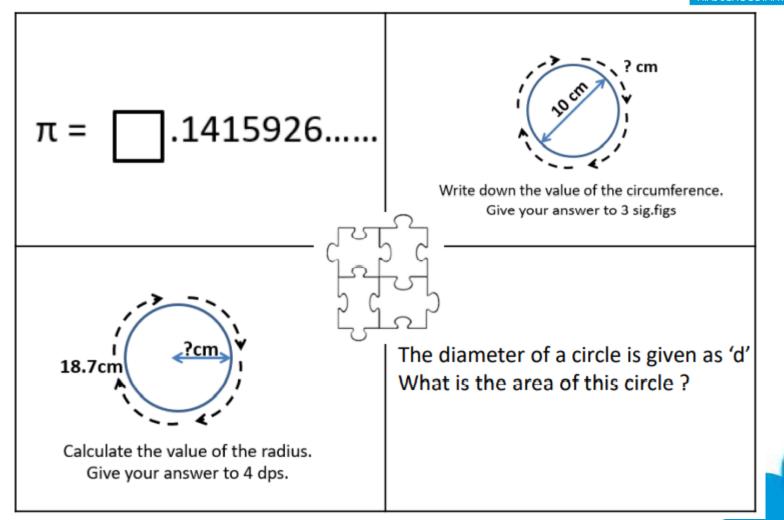






#### Low Stakes 'mini-tests' such as 'Connect4Maths

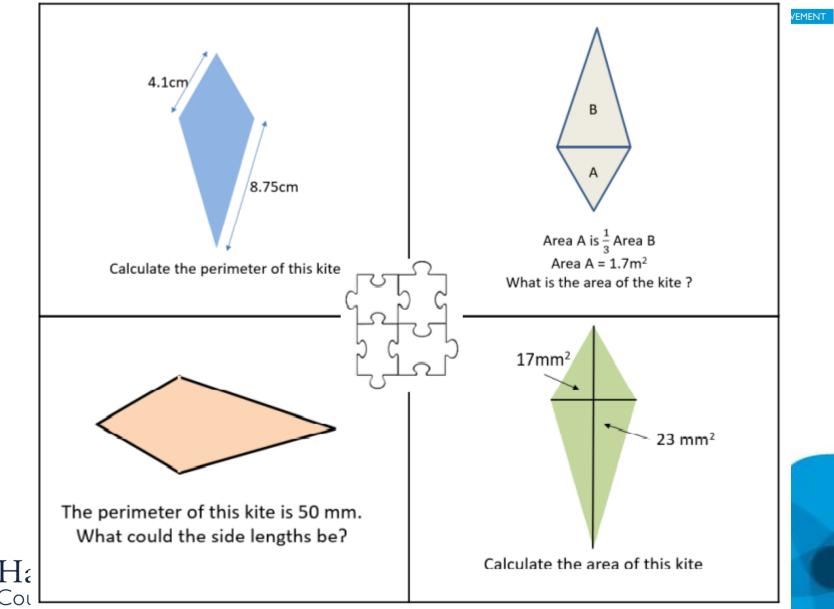






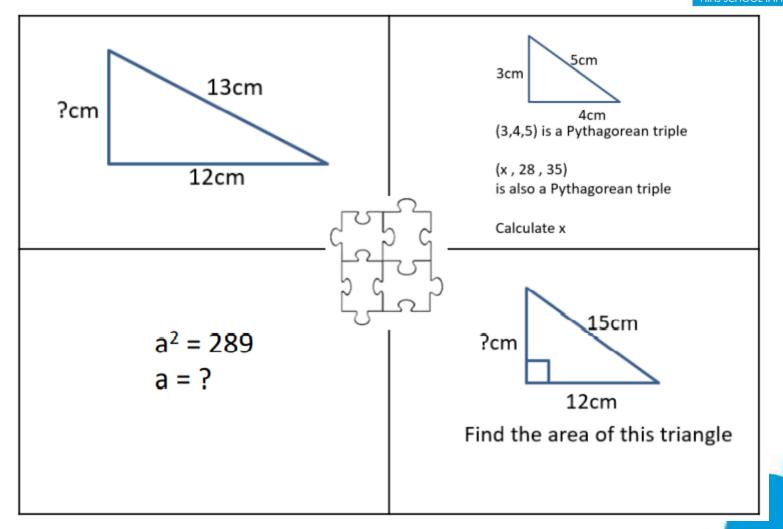
#### Low Stakes 'mini-tests' such as 'Connect4Maths





### Low Stakes 'mini-tests' such as 'Connect4Maths







## Low Stakes 'mini-tests' such as 'SSDD' problems (Craig Barton)



List all the factors of 48 List three factors of 48 that add up to 16 A rectangle has an area of A rectangle has an area of 48cm<sup>2</sup> 48cm<sup>2</sup> The length is at least double Two sets of dimensions can the width be used which give a The width is greater than 1 difference of 10cm when you List 3 possible sets of calculate the perimeter dimensions

Find the two sets of dimensions

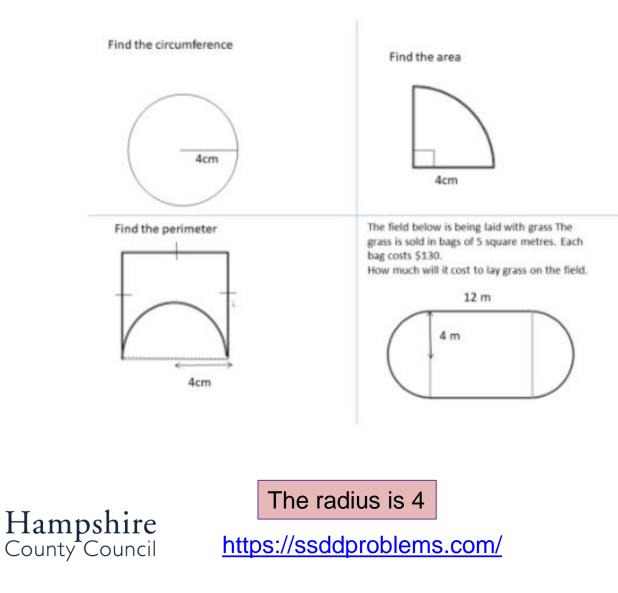
Factors of 48



https://ssddproblems.com/

## Low Stakes 'mini-tests' such as 'SSDD' problems

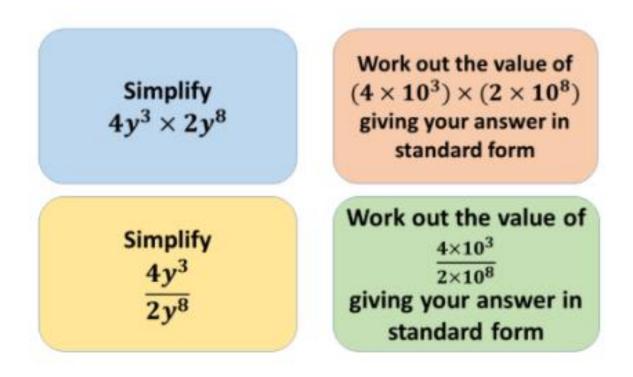






### Low Stakes 'mini-tests' such as 'SSDD' problems







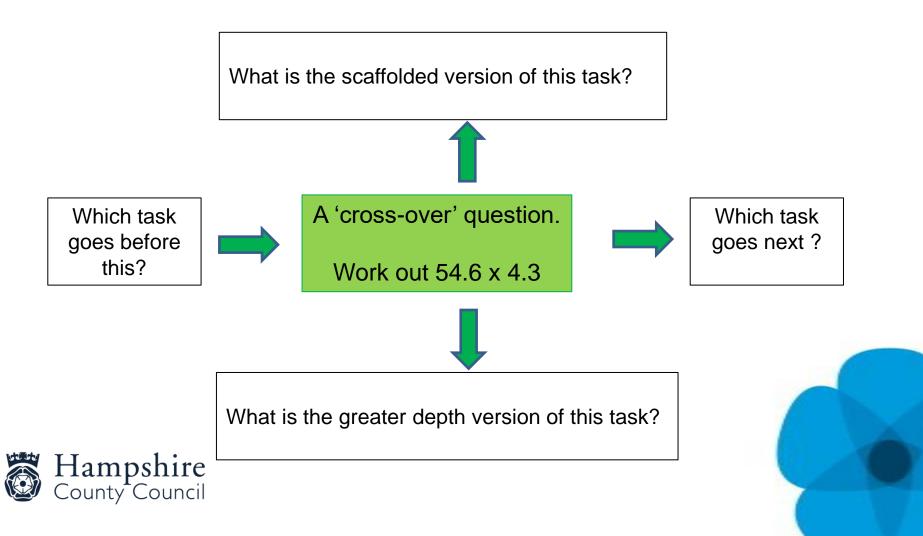
4s and 2s

https://ssddproblems.com/



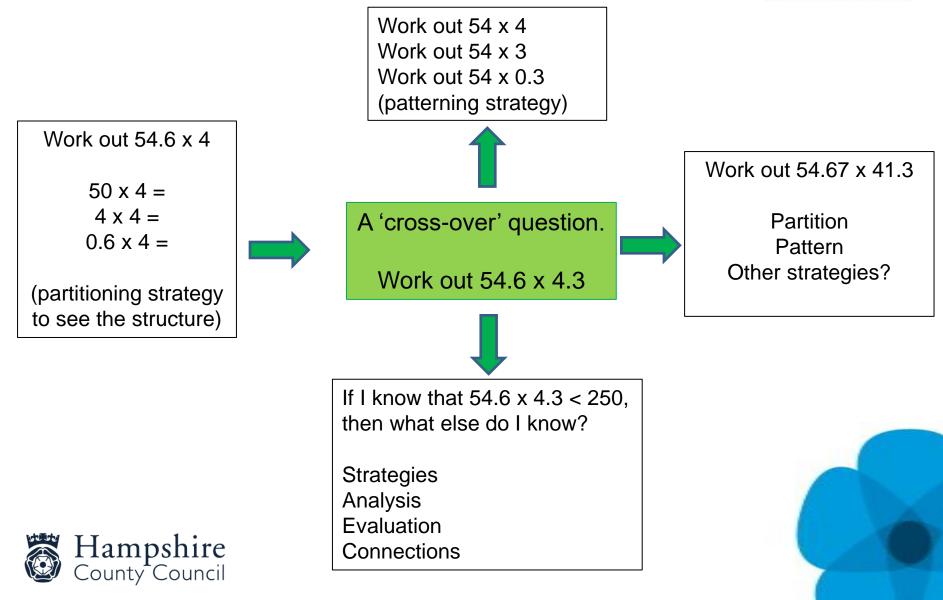


How can we scaffold and deepen a task such as a past question so that all students in the group feel that they can 'have a go with some success' ?



## Ensuring access and success for all







## Inclusion : How do we promote access and success for all ?

## Scaffolding

'Scaffolding' is a metaphor for temporary support that is removed when it is no longer required. Initially, a teacher would provide enough support so that pupils can successfully complete tasks that they could not do independently.

This requires effective assessment to gain a precise understanding of the pupil's current capabilities. Support could be visual, verbal, or written. The teacher will gradually remove the support (the scaffold) as the pupil becomes able to complete the task independently.

## Scaffold the main task:

- Use of part –whole models e.g. bar models and 'cherry' models to show the structure of the mathematics
- A model answer using a CPA approach to support learning preferences
- Breaking down process into smaller , more manageable steps





## Inclusion : How do we promote access and success for all ?

## Deepening

Deepening is the way in which the teacher offers an insight into mathematical structure and connections to **develop a pupils' ability to generalise.** It is not about 'harder maths', it is about having deep and secure foundations to your understanding so that you can not only solve the current problem, but future problems that are related to this one, seeing those relationships for yourself.

### Deepen the main task:

- Encourage a range of representations or methods to explore the structure of the mathematics
- Connect to other areas of mathematics
- Explore alternative versions of the same problem to see it from different perspectives
- Ask insightful questions to develop 'noticing' and 'wondering'





The next few slides are website resource ideas for:

- Starters for regular practice of basic skills
- Homework/revision for students at home
- Breaking up working through papers
- Intervention groups







# Crossover questions Hampshire



# Work out 54.6 × 4.3





Foundation tier: difficult questions



## Write 56.78 correct to one significant figure.









### 5-a-day GCSE 9-1



Numeracy – broadly designed for students aiming for Grades 1, 2 and 3. Foundation – broadly designed for students aiming for Grades 3 and 4. Foundation Plus – broadly designed for students aiming for Grades 4, 5 and 6. Higher – broadly designed for students aiming for Grades 6 and 7. Higher Plus – broadly designed for students aiming for Grades 8 and 9.

#### January

1st January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
2nd January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
3rd January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
4th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
5th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
6th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
7th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
8th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
9th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus
10th January Numera	cy Foundation	Foundation Plus	Higher	Higher Plus

Corbettmaths Videos, worksheets, 5-a-day and much more

Welcome Videos and Worksheets 5-a-day More Revision Cards

Videos and Worksheets

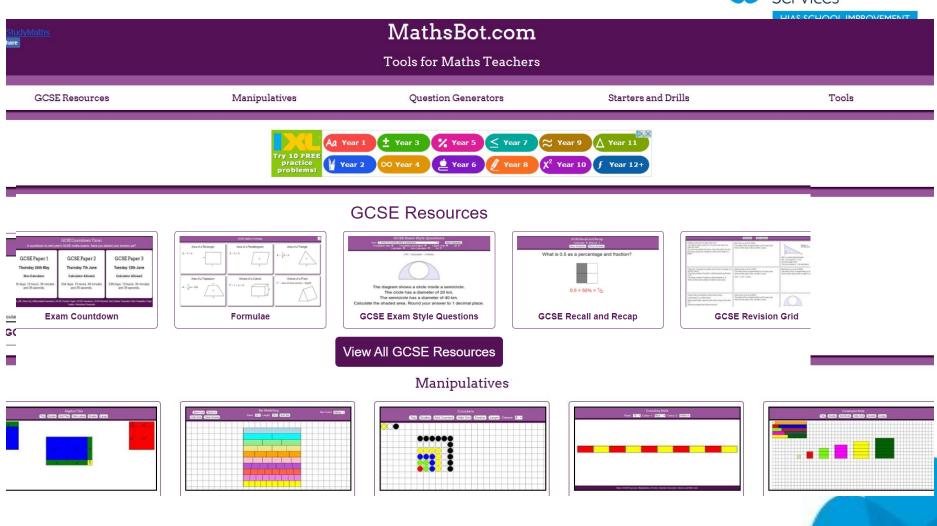
## Vidcos and Worksheets

### Click here for answers

Common marking codes for teachers Marking codes 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 Algebra: changing the subject Video 7 Practice Questions Textbook Exercise Algebra: changing the subject advanced Video 8 Practice Questions Textbook Exercise Algebra: collecting like terms Video 9 Practice Questions Textbook Exercise Algebra: completing the square Video 10 Practice Questions Textbook Exercise Algebra: dividing terms Video 11 Practice Questions Textbook Exercise Algebra: equation of a circle Video 12 Practice Questions Textbook Exercise Algebra: expanding brackets Video 13 Practice Questions Textbook Exercise Algebra: expanding two brackets Video 14 Practice Questions Textbook Exercise Algebra: expanding three brackets Video 15 Practice Questions Textbook Exercise Algebra: expressions - forming Video 16 Practice Questions Textbook Exercise Algebra: indices Video 17 Practice Questions Textbook Exercise Algebra: multiplying terms Video 18 Practice Questions Textbook Exercise Algebra: notation Video 19 Practice Questions Textbook Exercise Algebra: substitution Video 20 Practice Questions Textbook Exercise







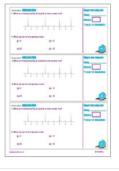




### **Boarding Cards**

These are available for every topic in the JustMaths Crossover. Basically, a quick exercise to assess prior knowledge before starting each of the topics.

Inequalities (0.2 MiB)



L'THEFT	<b>E</b> 53	Acar	Remark	Han er
Real Property and the of the	2	antes que ten en.		an. obspress.
A N	1	Add brackets	- 1	
8 (B		to make the	559	HOW MANY MUCH
5 5	1 1 6 4	following	2 1 2	UNWARDS CAN YOU MAKE BY FUTTING
5 8	1 2	correct:	155	THE BARDING &
	11200		8.18	DETWEEN THE
9 8	11	18-3x5+75	684	Anip of
	119	10-9x2-1	181	18. 4-4+1
8 9	1 2 2 2		1225	4+4+8
12 13	2 221	8+3x4-38	2 8 9	YOU DON'T HANK
	1 111	150-0+12-12	26.2	NUMBERS BACK
	1 1 1 1		2 2 2	HAVE TO LEE THE
	1 22	3+5+8-2-23	F 2 1	OF OPERATIONS.

### **LEARN Homework**

These are available for every topic in the JustMaths Crossover and provide a consistent style of homework across all topics that include an element of literacy, practice and research.

i Bidmas (0.3 MiB)

### Connect 4

Our "connect 4's" are student worksheets, in which they work in pairs (or individually) to connect 4 in the answer grid (not the question grid), which will mean that they have to answer questions of varying difficulty. It is self-checking so that if the answer isn't in the grid the student must check their working.

- Bidmas (0.1 MiB)
- Fractional And Negative Indices (0.2 MiB)
- Standard Form (0.1 MiB)



🚟 Surds (0.2 MiB)

				and a same for some	the Real Proto				
Question Grid					Answer Grid				
7=6±3	$(5\cdot 2)^2 + 2$	54+42+ 6	4 + 3*	2+4+2+7 <sup>0</sup>	и		336	٠	33
7 = 32 = 4	g39)+4	32 <sup>2</sup> .4 <i>a</i> 7	41.2	12-12	39	10	21	1	3
#+23 <sup>1</sup> -3	3.64+4	3×(5 <sup>2</sup> -4 <sup>2</sup> )	39-35 - 3	$(0+2)^2+2$	,	34	¥	٠	2
15×(8-7)	22+2-2	\$1.4	4°+13+4	7-10-12	13	n	н	,	100
2-147	4451	p4-0)-5	8-3-5	12 + 18 + 8	35	12		n	25







### 9-1 Revision Material

Seasonal	Start with Confidence	Pentagon Problems	Octagon Revision	Revision Maz
Revision Mater	rial that is being uploaded as an	d when I make them for my	/ear 11's up to their GCSE th	is year.

### Fill in the blanks! - Graph Revision

ACCESS MATHS

#### Linear Graph Sketching - Fill in the blanks!

Equation	Y-intercept	Gradient	Equation of a parallel line	X-Intercept	Perpendicular gradient	Sketch
y = 4x - 1						
y = 6x - 3						_
y = 3x + 6						-
	4		y = 2x + 5			
	-1		$3\gamma = 12x - 5$			

#### Parabola Sketching - Fill in the blanks!



**Progressive Overload - Algebra** 

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#### **Progressive Overload - Number**

PROGRESSIVE OVERLOAD NUMBER ACCESS MATH -----MUTTEL Ret all Read No.4 Rebail (A.L.) b Relation of the local division of the local Band. 27 - 17 844.00 14 - 10 DWDE ESTIMATE ROUND ORDER CHEULATE 100 114×117 844 14 \* POWERS 8.c FRACTIONS RATION STell



A	Algebra Progressive Overload Download File	- 90	Questions
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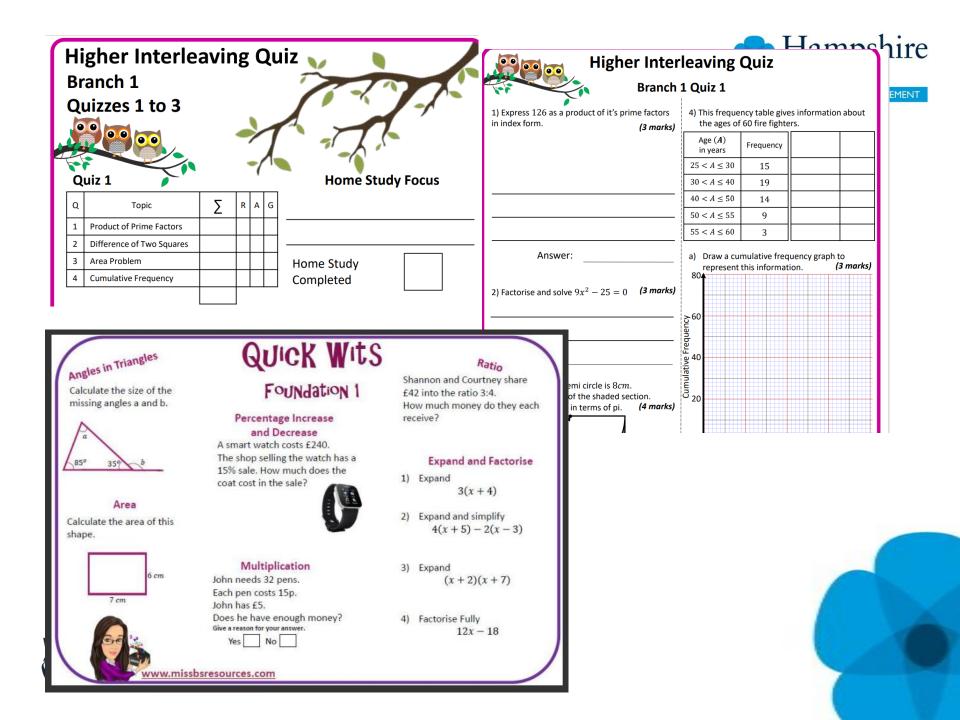
Number Progressive Overload 90 Questions.pdf **Download File** 

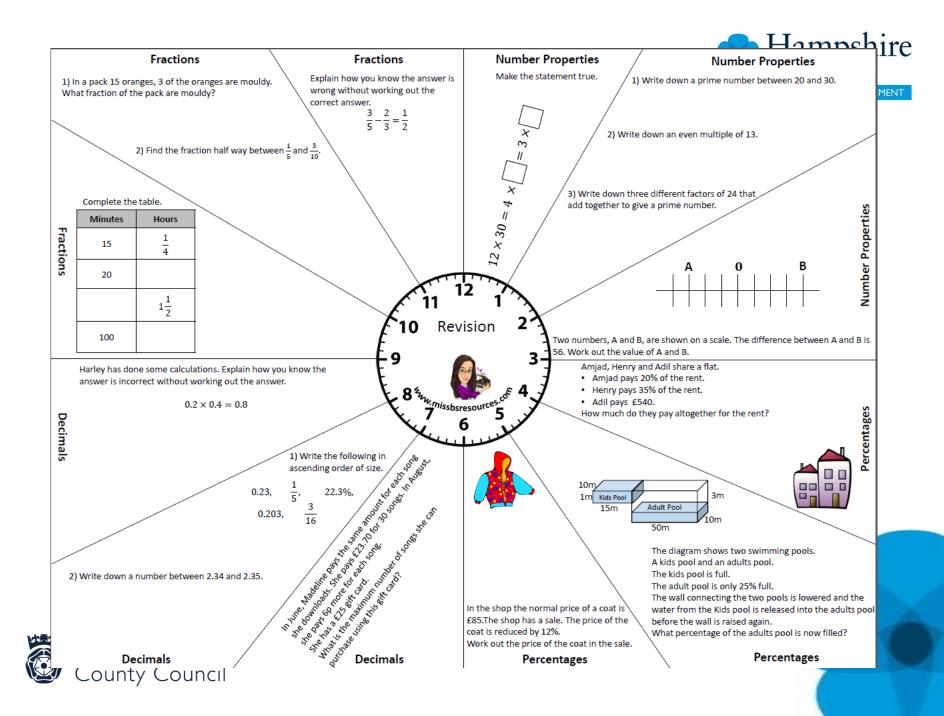




- Usmahin

#### Final Countdown Foundation Revision Mat 1 3) Expand and Simplify 5) Name the parts of the circle 1) Calculate the mean, 4) Work out 2) Calculate the nth term rule median, mode and range from of the sequence. a and b. 4(x-3) - 2(x-9) $\frac{2}{5}$ of £140 the following list of numbers. 2, 5, 8, 11, 14... 5, 12, 10, 8, 13, 12, 7, 12, 11 6) Evaluate 7) Calculate the missing angles 8) Place the following numbers 9) Solve 10) Complete the following x and y. in ascending order. sentence with either: 5 + -94(x-5) = 12Impossible, unlikely, even, 108° 1.02, 0.4, 1, 0.04, 0.24, 0.042 likely or certain. 112° 76° $18 \div -6$ $x \cap$ Abdullah rolls a dice. It is he will roll a six. 11) Write a formula for the 12) 657 passengers paid £247 13) A shop has a 15% sale. 14) Brittney weighs a car on a perimeter of the regular each for a cruise on a small Originally a computer cost <sup>y</sup>**≜**20set of industrial scales. £275. How much does the shape. cruise ship. 18 Estimate the amount paid by computer cost in the sale? It weighs 900kg. 16 the passengers in total. -14 Estimate the cars weight ounds 12 2x in pounds. 10 15) The area of a rectangle is 16) A sample of boys were 17) Draw the net of the cuboid 8 48 $cm^2$ . What is the asked their favourite sport. 45 on cm squared paper. 6 difference between the boys said tennis. 2cm -4 How many boys smallest and largest perimeter Tenni the shape could have? were in the FootballRugb 5cm sample in total? 3 5 6 7 8 9 10 2 4 8cm Kilograms Challenge Georgia and Courtney share sweets in the ratio 4:7. Courtney gets 24 more sweets than Georgia. How many sweets do they both get? www.missbsresource 🗒 📇 h슈 🗸 💷 🚈 🗕 🕂 🗼 😂 County Council









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