



Ensuring your child thrives at home with their maths...

# What is HegartyMaths?

#### HegartyMaths is the best way for your child to learn maths on their own at home.

- 1. Every single topic in school maths (850+) is explained in 10 minute video tutorials designed and delivered by, Mr Colin Hegarty. Mr Hegarty is an-award winning teacher who won UK Teacher of the Year 2014 and was nominated in the top 10 teachers in the 2016 Global Teacher Prize. Your child does not have to feel stuck at home as Mr Hegarty can explain any topic to them.
- 2. After every video, HegartyMaths, has an assessment with questions covering everything taught in the video so students can practise and ensure they understand the maths Mr Hegarty just presented.
- 3. HegartyMaths records everything your child ever does on the system (their progress and effort), reporting it back to the teacher and to the child so it's clear what their strengths and weaknesses are and how hard they are working.
- 4. HegartyMaths allows a parent to see everything their child needs to learn and support them. Often parents who may be unsure of the schools methods like to watch the videos along with their child and understand the techniques their child needs to know.
- 5. HegartyMaths, remembers all the child's mistakes and gives them practice on their weaknesses so they can do impactful independent learning.

#### The whole curriculum is online for your child to have access to.

# Who is this Mr Hegarty of HegartyMaths?

#### Mr Hegarty....

- 1) ... loves maths and teaching it and knows that any student can do well in maths if they work hard.
- 2) ... was the first person ever in his family to go to University where he got a First in Maths from Oxford University (he believes he was not special or that clever -> he just had good teachers and worked hard!)
- 3) ... became a secondary school maths teacher (his dream job!) as it was his ambition to help any student succeed in maths.
- 4) ... has won teaching awards and been on TV talking about how much he loves maths and wants kids to do well!











Mr Hegarty meeting the Prime Minister with his students from Wembley.

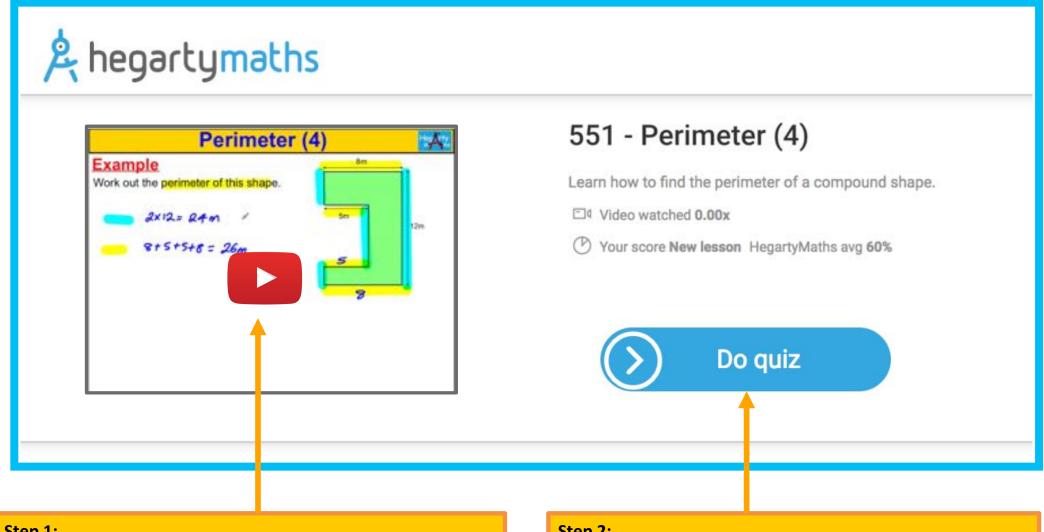
Mr Hegarty on BBC breakfast and Good Morning Britain talking about maths.



# Our school's weekly homework routines

- Your child will always be set at least one homework a week by their teacher.
- Your child's teacher will choose the lesson they want them to learn and will pick it so that they are revising an important maths revision topic. As such, they will have already probably covered it in class but might have forgotten. Their homework is to revise as, to be a great learner, it's important that your child revises as a habit and not just before tests!
- Your child need to spend **between 30 minutes and 1 hour** on their homework as this shows effort and commitment and will ensure that they do quality homework.
- Your child will always be expected to
  - i) watch the video + take notes;
  - ii) write down your quiz workings neatly;
  - iii) mark their own work, make corrections and write down their score at the end.
- Homework will be checked by your child's teacher in class once a week. Your child will be expected to bring their homework book to class for their teacher to view against the criteria 4 i), ii) and iii) above.

# What does a homework on HegartyMaths look like?



#### Step 1:

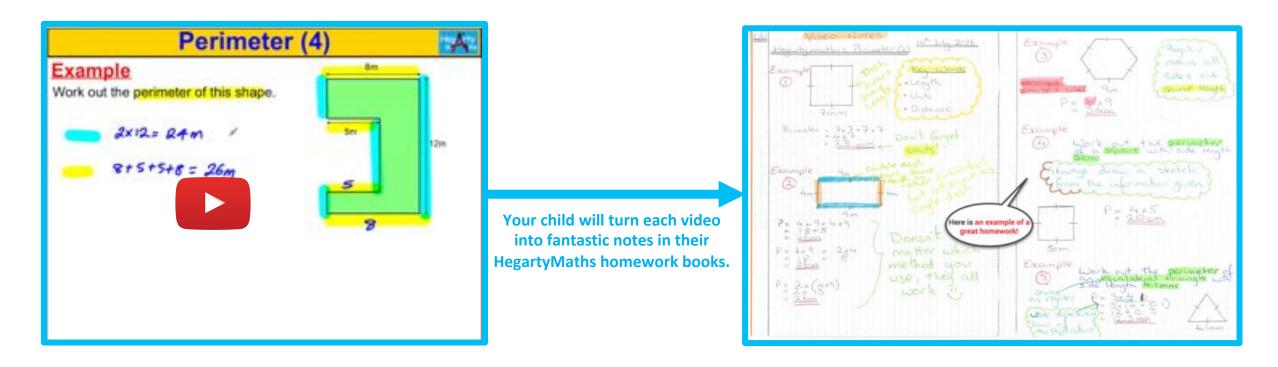
Video where Mr. Hegarty teaches your child everything they need to know about that topic & goes through all the examples that will be in the quiz.

#### Step 2:

Quiz that will allow your child to practise all the examples in the video for themself and know whether they understood what was in the video.

#### Step 1:

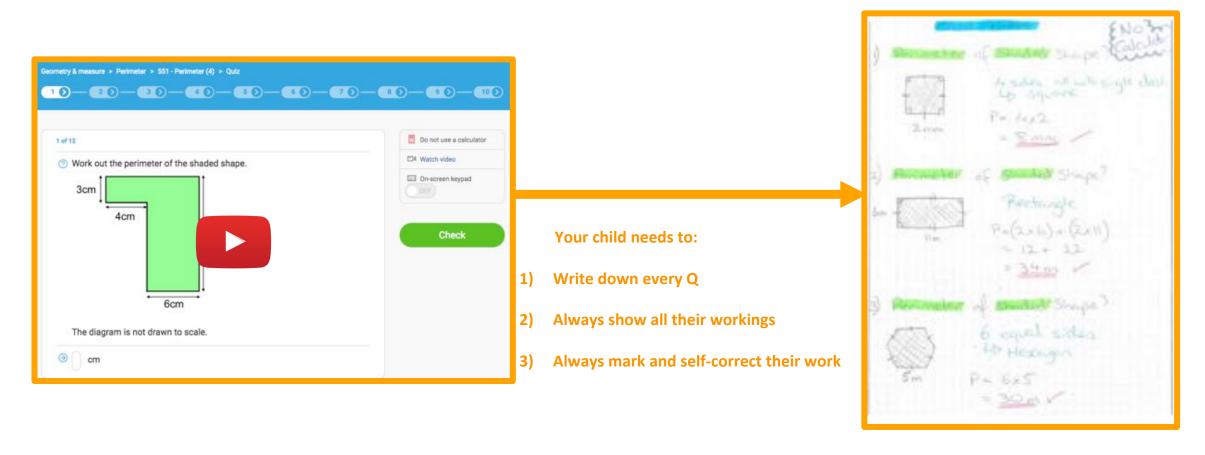
You child needs to watch the video, take notes of all modelled examples.



Your child will <u>always</u> produce a set of well-written notes of all the modelled examples in the video as we want your child to be an expert note-takers and to revise before they try the quiz. If your child knows the material, they should still take the notes as it's a good habit and ensure they are producing revision notes every week.

#### Step 2:

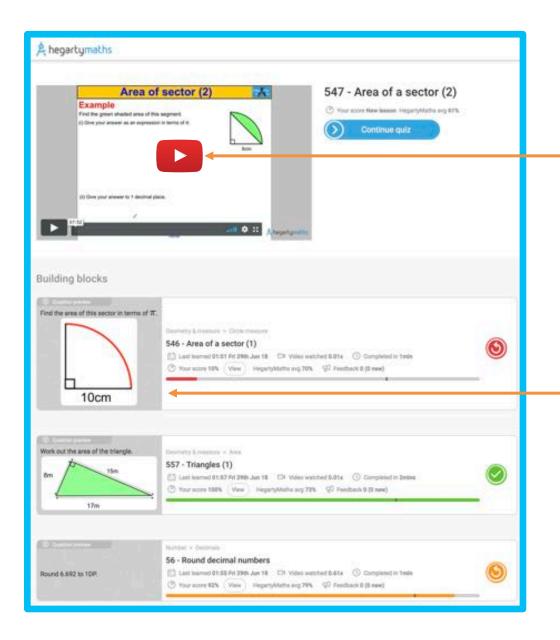
Your child then needs to assess their learning from the video in a quiz.



Your child will <u>always</u> show their workings and mark all questions they ever do. If your child can do the question in their head they still need to show their workings as that is part of being a great mathematician.

#### Student checklist for great weekly homework

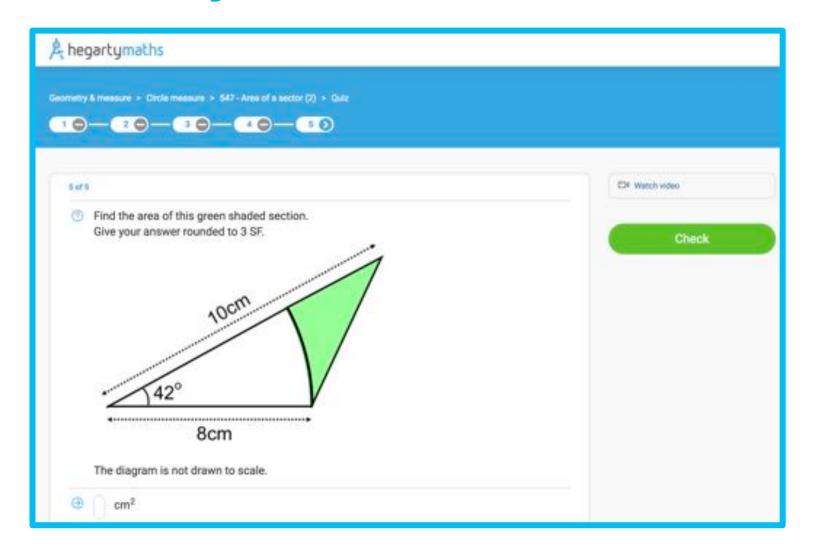
	Action	√ or X
1	I always write the date, title, clip number and H/W for all my tasks.	
2	I always watch the video before attempting the questions.	0
3	I always take full notes of all the examples modelled in the video.	
4	I copy every question that I attempt in my book.	
5	I show all my workings for every question in the quiz that I do.	
6	I try to model my work the way I was shown in the video by Mr Hegarty.	
7	I use a pencil and ruler for all diagrams.	
8	I mark my work correct/incorrect as I go.	
9	I write down corrections when HegartyMaths tells me the correct answer.	
10	I write down my score at the end of quiz .	

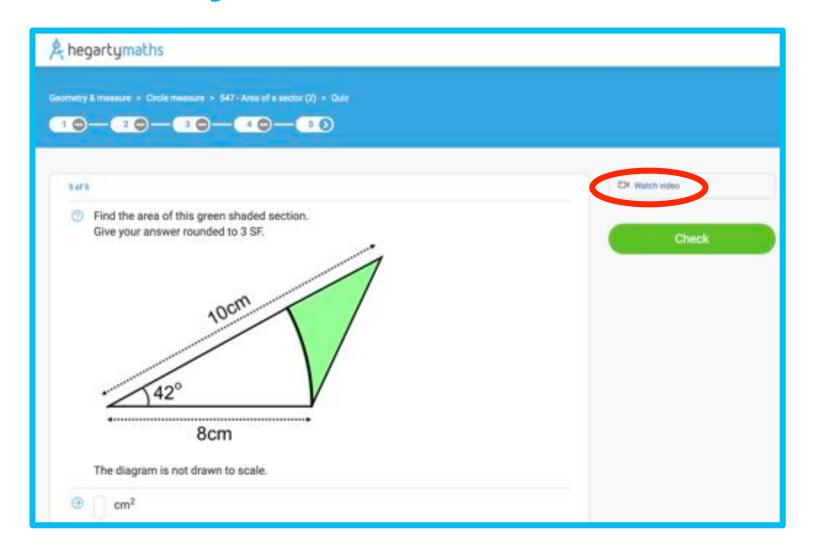


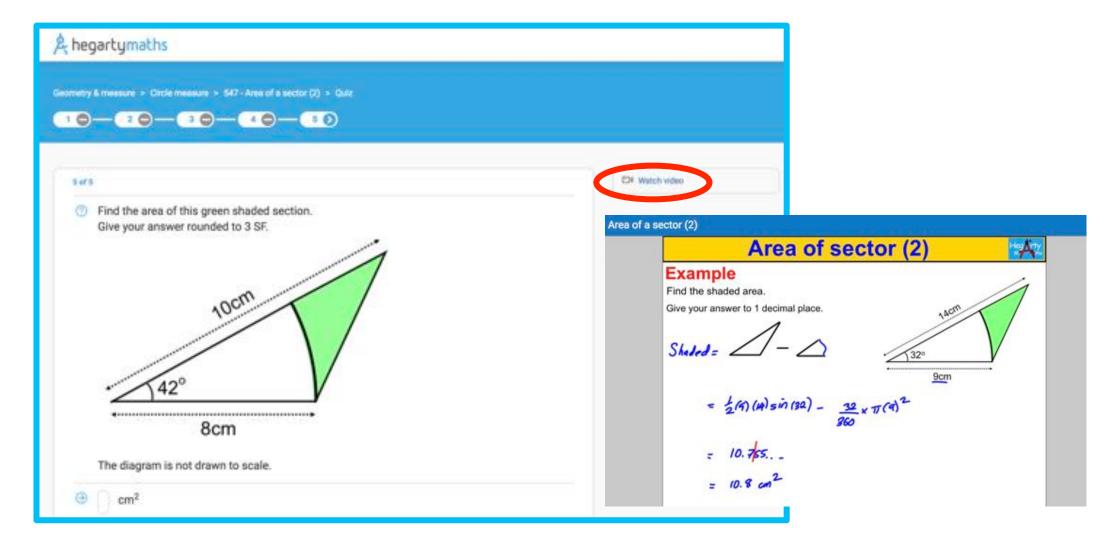
1) Watch the <u>video again</u> really carefully ensuring all examples are copied and see if hearing and writing it down a second time helps.

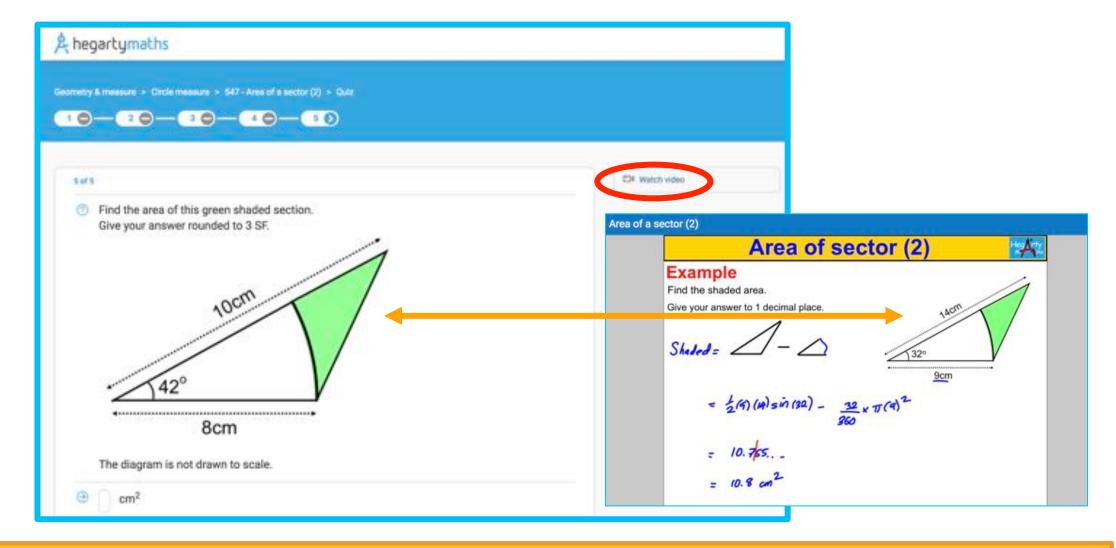
2) Look at your <u>building blocks.</u> These are the lessons that will help you with your current homework. If these are not at 100% or less than the HegartyMaths avg. then you should redo those them as it will help on your current work.

In the picture, the student will struggle with homework 547 as they have only 10% on lesson 546.









There will always be an example in video that will cover an almost identical question to the one they are stuck on. They can also pull the video up in the quiz and scrub the video to the place that will help them on the one they're stuck on.

# Why does your child always have to watch the video?

- 1) Ensures your child will be successful: Watching the video will ensure your child will do well in the quiz and feel good about their homework and maths. We don't want your child to feel like they are on their own at home and the videos will give you the support they need to guarantee that they have a successful homework.
- 2) <u>Helps improve their memory:</u> Copying down modelled examples helps your child remember their maths and get it into their long term memory.
- 3) Method marks: Copying down modelled examples helps your child practise how to lay out their maths properly to help them get questions correct and get extra method marks in exams even when they make mistakes.
- 4) Good revision: This is revision. When revising one sometimes has to look over material one already knows that's just as important as learning new things as making old learning solid helps prevent students from forgetting things
- 5) We thinks it's important as it helps your child be independent: Doing maths at home with these good habits and methods will help your child become more independent and be able to learn on their own (a vital life lesson).

#### What happens when students decide not to watch the video?

- 1) Students get stuck and frustrated: Many students who just do the quizzes get really annoyed and frustrated with themselves as they make lots of mistakes and don't understand why or how to get better.
- 2) Students stay at the same level: Students who just practise questions only get questions correct on topics they already know and they get questions wrong for topics they don't know yet. They never improve. Watching the video means that for things they already know, they will secure that knowledge, and for things they don't know yet, they can learn and so get better.

#### What happens when students decide not to watch the video?

"Mr Hegarty, I can't do these homeworks as they are too hard and too I'm stupid!" (Hakim)

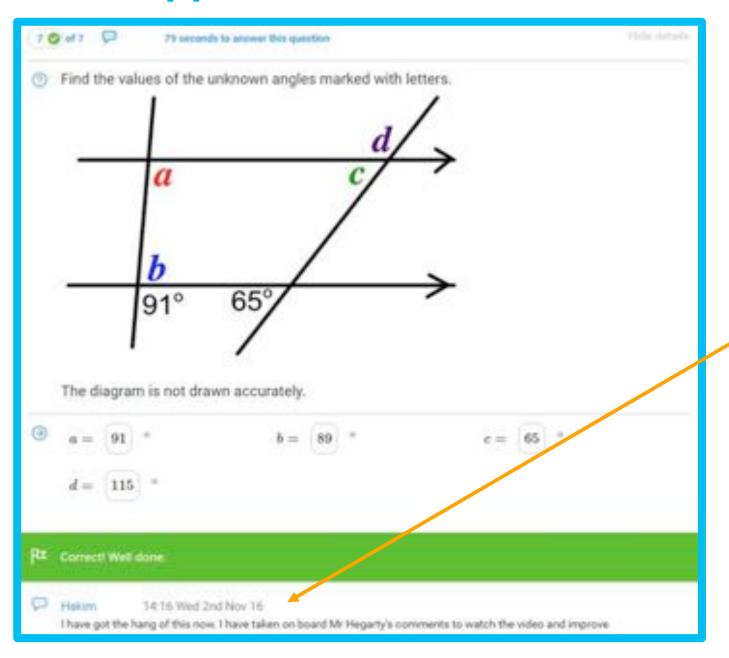


Hakim is upset and thinks he can't do maths.

He is wrong - HE CAN DO MATHS!!!!

He is getting low scores as he is not watching the video or putting in enough effort.

#### What happens when students decide not to watch the video?



#### Hakim smashes it!!!!!!!!

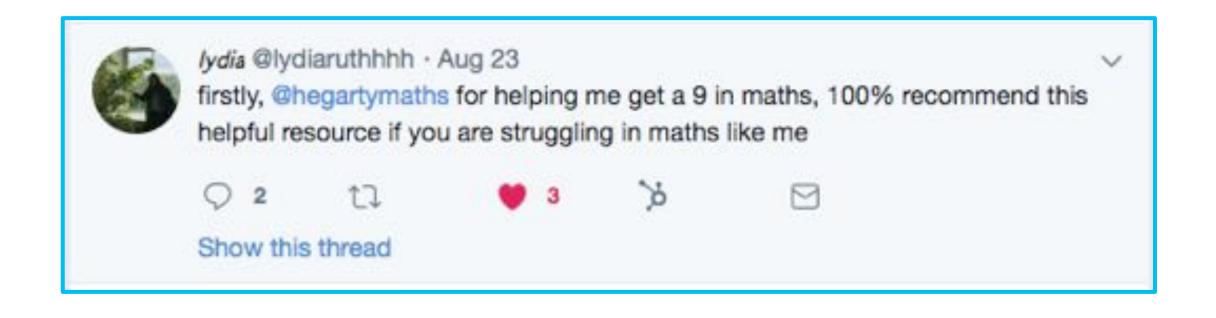
Mr Hegarty reminded Hakim that he needs to spend longer on his homework, watch the video, take notes and write down all his workings. The next week Hakim completed a much harder homework, got it all correct and wrote back a comment to say thanks and he now knows how to improve and succeed.

- 1) Students start enjoying maths and understand more in lessons.
- 2) Students like doing their homework as they feel successful.
- 3) Students do well in their exams.

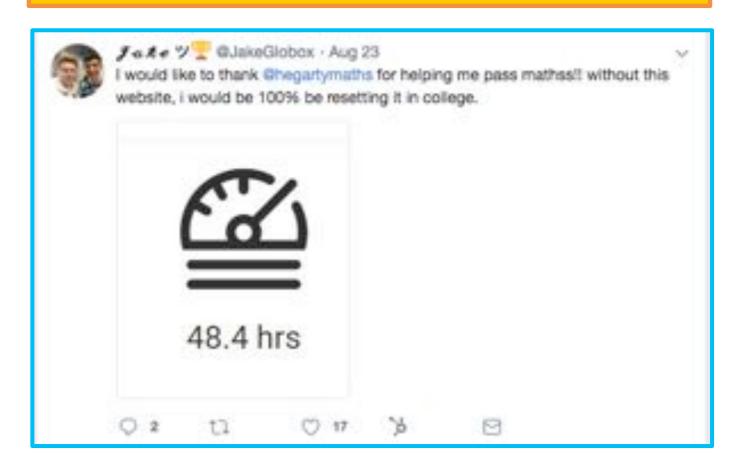
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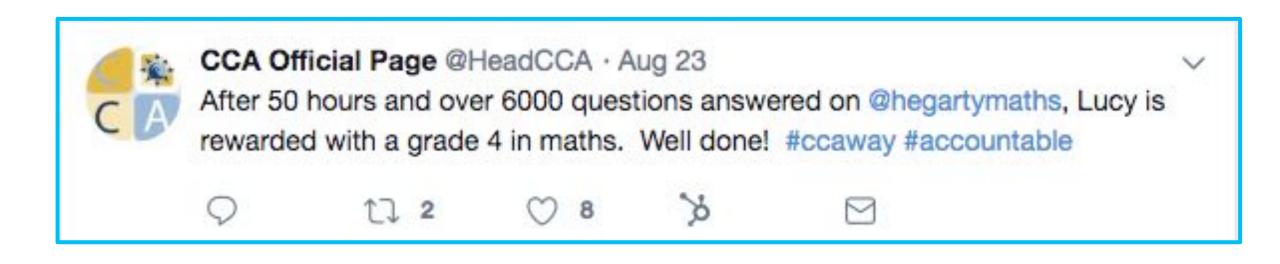
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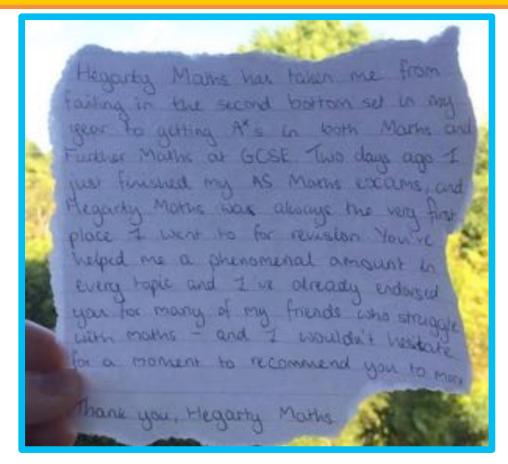
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I was in the bottom set in maths in my school. I started doing lots of HegartyMaths and got better at maths. My teacher saw my progress in HegartyMaths and combined with my end of term assessment I was moved up two sets!

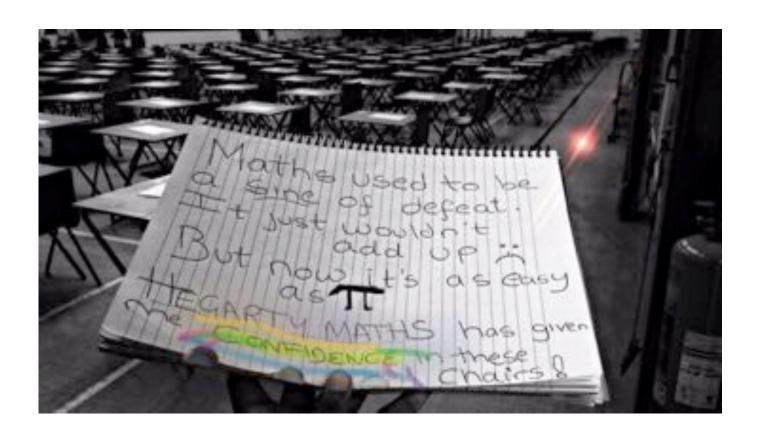
Rohan

I would like to thank you for everything you have done. You have made me go from a student who hates maths, to someone who is in love with it!

- 1) Students start enjoying maths and understand more in lessons.
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#### What do other parents say?

- 1) They like being able to understand what their child is learning.
- 2) It allows them to participate and help
- 3) They have seen their children become more confident and improve.

Hil I thought I would just write a little note in reference to my gose maths. I am a mum who has always been eluded by maths and decided last year (because my son would be sitting his gose in 2015) I would have another go at night school. I spent all of my spare time revising and practising but was still struggling until someone mentioned Hegartymaths on Youtube. I then spent much of the time with headphones and a kindle and practised past papers (the higher one) and it eventually started to sink in! I had my results last week and I have passed! I just wanted to say a massive thank you; your explanations were superb and I really felt like you were sat there with me! I had tangent and circle theorems reverberating round my head for weeks, 'we know that if a radius of a circle is .... then the ...!!' Some people dream of climbing Everest or swimming the channel - I just wanted to reassure myself that maths was not a mystery and, with your help, it no longer is! Thank you

Happy parent

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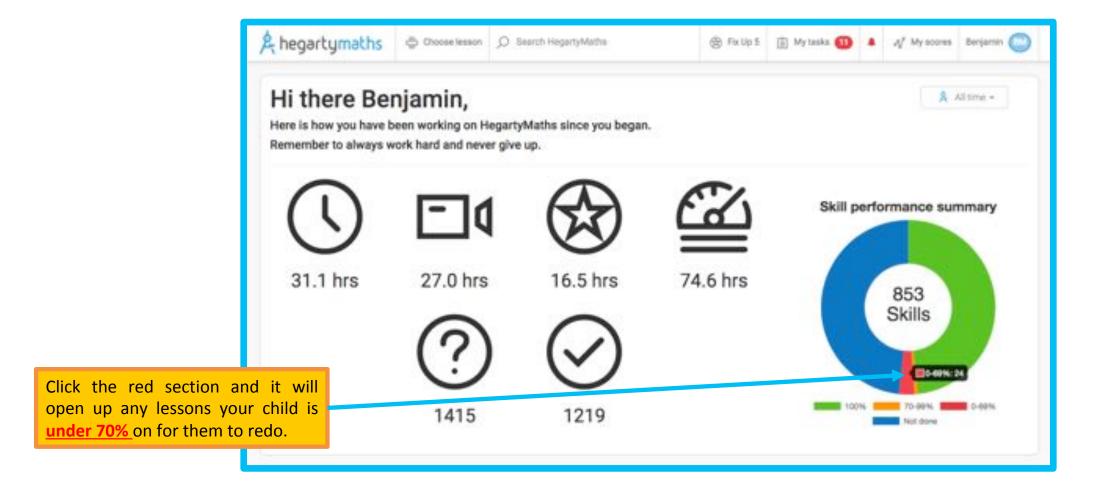
"I think HegartyMaths is a fantastic resource, it really allows me to support with homework - we watch the videos together, they are excellent". "I think it is a good system - I like how you can check how long they spent on the homework and if they have watched the videos. As a parent, I would be prepared to pay for it!"

Happy parent

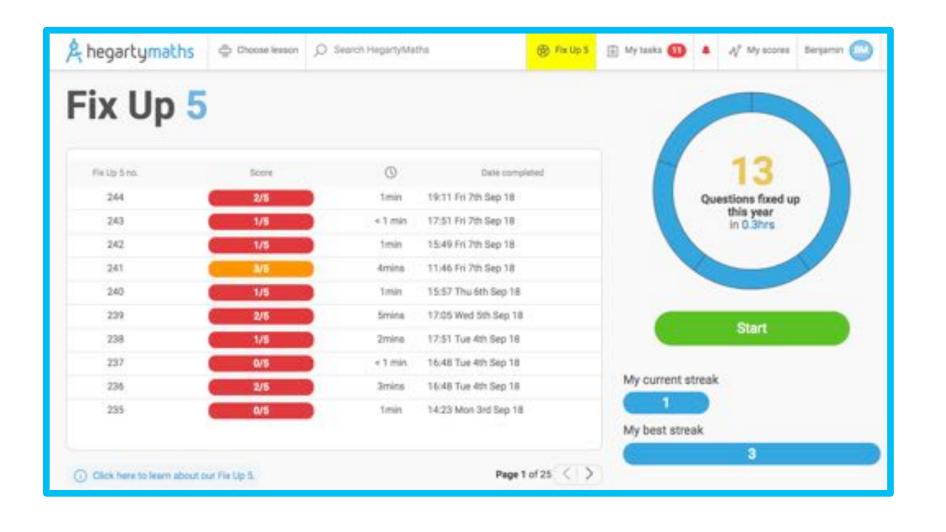
#### 5 things you should do when you want to do extra work

	Action	√ or X
1	I go back to my donut and pick lessons that are red (<70%) to redo them to make them amber (>70%) or green (100%).	
2	I go back to my donut and pick lessons that are amber (>70%) to redo them to make them green (100%).	
3	When working on lessons that are red or amber and I cannot make them 100%, I rewatch the video and look at the building blocks which may help me.	
4	I complete a Fix-Up-5 where HegartyMaths gives me 5 practice questions on parts of maths that I might be weak on.	
5	If my teacher has given me a revision list of clips on HegartyMaths, then pick a topic on that list and complete a homework the normal way myself.	

1) Use their donut to improve their weak areas: Your child can click the red section to find the quizzes they need to improve (quizzes under 70%) and redo them until they are amber (quizzes over 70%) or green (quizzes at 100%). Once they have made everything green or amber go back over the amber and try to get them to green.



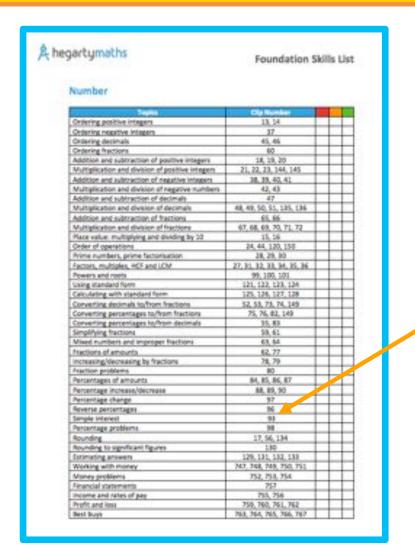
2) Fix up 5: HegartyMaths remembers every mistake your child has ever made and generates a quiz with 5 questions from different parts of maths that they are weak on so they can re-do them with the video and Fix Up!



3) Learn a new section: Your child's teacher may have given them a revision list of clips so they can now use that to find a clip on HegartyMaths that will be something that will help get ahead.

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Number		
The second secon	Oly Number	
Ordering positive integers	13, 14	
Ordering negative integers	37	
Ordering decimals	45, 46	
Ordering fractions	60	
Addition and subtraction of positive integers	18, 19, 20	
Multiplication and division of positive integers	21, 22, 23, 144, 145	
Addition and subtraction of negative integers	38, 39, 40, 41	
Multiplication and division of negative numbers	42, 43	
Addition and subtraction of decimals	47	
Multiplication and division of decimals	48, 49, 50, 51, 125, 136	
Addition and subtraction of fractions	65, 66	
Multiplication and division of fractions	67, 68, 69, 70, 71, 72	
Place value: multiplying and dividing by 10	15, 16	
Order of operations	24, 44, 120, 150	
Prime numbers, prime factorisation	28, 29, 30	
Factors, multiples, HCF and LCM	27, 15, 12, 13, 34, 16, 36	
Powers and roots	99, 100, 101	
Using standard form	121, 122, 129, 124	
Calculating with standard form.	125, 126, 127, 128	
Converting decimals to/from fractions	52, 53, 73, 74, 149	
Converting percentages to/from fractions	75, 76, 82, 149	
Converting percentages to/from decimals	35, 83	$\overline{}$
Simplifying fractions	59, 61	
Mixed numbers and Improper fractions	63,64	$\neg$
fractions of amounts	62,77	
increasing/decreasing by fractions	79, 79	
Praction problems	80	$\overline{}$
Percentages of amounts	84, 85, 86, 87	
Percentage increase/decrease	88, 89, 90	$\neg$
Pencentage change	97	$\overline{}$
Reverse percentages	No.	-
Simple interest	93	+
Percentage problems	98	$\top$
Rounding	17, 56, 134	$\neg$
Rounding to significant Figures	130	$\overline{}$
Estimating answers	129, 131, 132, 133	
Working with money	747, 748, 749, 750, 751	
Money problems	752, 753, 754	
Financial statements	757	+
Income and rates of pay	715, 756	+
Profit and loss	759, 760, 761, 762	
Best buys	763, 764, 765, 766, 767	+

3) Learn a new section: Your child's teacher may have given them a revision list of clips so they can now use that to find a clip on HegartyMaths that will be something that will help get ahead.



If your child want to learn Simple interest type clip number 93 into the Search Bar, watch the video and do the quiz in the normal way.

A hegartymaths Choose lesson 93 Simple interest

### 8 things parents could do at home to help their child...

	Action	√ or X
1	Each week ask about your child's homework  Ask your child what day the homework was set, when it must be handed in, what clip number and topic it is and when your child plans to complete the homework. Try to encourage your child to complete the homework well before the due date.	
2	Provide your child a good place to work  Provide your child a quiet but supervised place to work. As the homework is online, it's good to be in the room to ensure your child is not getting distracted by other online activities. Furthermore, as it's a written homework, your child will need a desk, table or flat surface to copy their notes. If you don't have a suitable place at home to work or weak wifi, please encourage your child to attend their school's homework club.	
3	Get your child the correct equipment  Your child will need a black/blue pen for all working, a pink highlighter for marking all wrong questions, a green highlighter for marking all correct questions, a red pen for writing corrections, a pencil and ruler for drawing all diagrams. Many lessons also require a scientific calculator and geometry set.	
4	Encourage your child to work in the right way  Please always check your child has carried out their homework following the three requirements below which will have been modelled and encouraged by their teacher:  i) Always watch the video and take notes of all modelled examples provided;  ii) Always write each Q down and show all their workings always;  iii) Always mark each question, make corrections and write their score at the end.	

### 8 things parents could do at home to help their child...

5	Sign-off their homework each week  Each week ensure you sign-off your child's maths homework to say you have viewed it and believe they spent 30 mins to 1 hour on it and they have completed the 3 key expectations above.	
6	Encourage your child not to give up if they are making mistakes  If your child is making mistakes, tell them that is ok and normal. As long as your child is working in the correct way (watching the video, taking notes, writing their workings and self-correcting) then praise them for their hard word and application. Try not to focus on their score as this can demotivate them. If you praise their effort and tell them they will eventually improve if they keep working in this way they will be happy and want to do their weekly homework.	
7	Reassure your child if they are not understanding  If you child completely does not understand the video, watch it with them and try to help them understand. Also look below the video to their building blocks. Redoing these lessons will help your child plug any gaps in their prior learning needed for the current homework.	
8	Help them do extra work or get ahead  Before learning new topics, always encourage your child to do two things:  i) Fix lessons marked in their donut as red (under 70%) or amber (between 70 and 100%) and try to make them green (100%) by redoing them.  ii) Complete a Fix-Up-5. HegartyMaths will remember every mistake your child has ever made and gives them 5 practice questions on their weaknesses with the help video. This will allow your child to improve quickly.  Once the two above are done, then you can consider completing extra new lessons. Ask your child's teacher for the best extra clips to do.	