/EAR 7 Numeracy Booklet Booklet 2022-2023



FORM:



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FORM:



Autumn Half Term Two : Algebra & Equations

Contents

Contents:

- 1. How to use HegartyMaths
- 2. How to log in to HegartyMaths
- 3. HegartyMaths Clips to revise along with lessons in school
- 4. Maths Vocabulary
- 5. Investigative maths tasks

- Each week you will be set one piece of compulsory intendent learning from your maths teacher, which they will check you have completed.
- This must be completed in your orange homework book
- The work from this booklet can also be completed in your orange book.
- The work in this booklet is for lesson consolidation, revision, and some extra maths challenge!

Learning Journey

Contents:

- 1. How to use HegartyMaths
- 2. HegartyMaths Clips to revise along with lessons in school
- 3. Maths Vocabulary
- 4. Investigative maths tasks

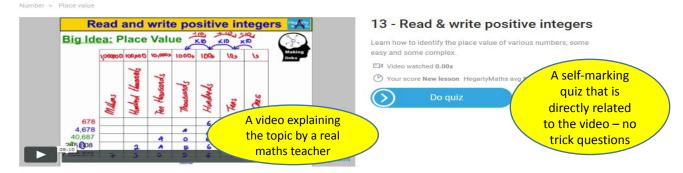
These are the topics we are covering each week this term. Tick the 'Red' 'Amber' or 'Green' column depending on how well you think you have understood each topic.

Spring 1	Topic	R	А	G
Week 1	Negative Numbers			
	Expressions			
Week 2 and 3	Collecting Like Terms			
	Expanding			
	Factorising			
	Balancing Equations			
Week 4 and 5	Inequalities			
Week 6	Exploring Equations and Inequalities			



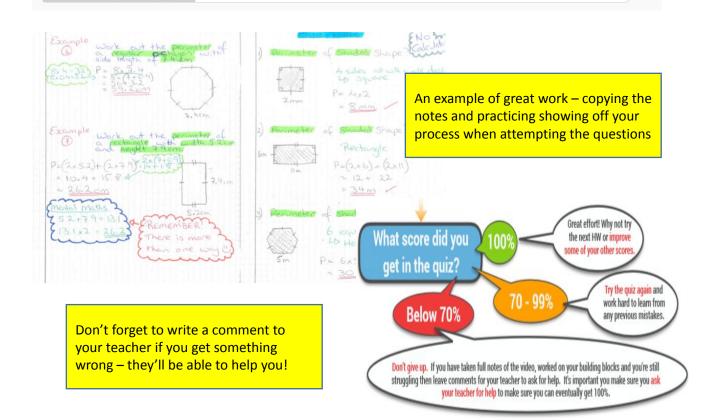
"BELIEF + HARD WORK + SUPPORT = SUCCESS."

What does independent learning on Hegarty Maths look like?



Building blocks – don't understand the **Building blocks** video? Building blocks show you the topics you need to understand BEFORE you try this new topic. They act as more support 9 - Addition facts Evaluate □4 Video watched 0.00x for your learning. 8 + 9P Your score New lesson HegartyMaths avg 97% These are always found at the bottom of the page 10 - Multiplication facts (times tables) Evaluate □4 Video watched 1.00x 8×9 Your score New lesson

(!) Spotted a mistake in this video'





How to log into HegartyMaths



Step 1

From the website, <u>www.hegartymaths.com</u>, click on "Student log in"

Step 2

Type in 'Norwood' to find our school. It will be the second option

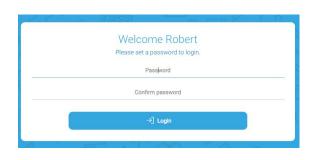


Step 3

Enter First name, Last name, and Date of birth. These must be the same as the details on the school register. Names are cAsE insEnsiTivE, so it doesn't matter if you write them in *lower* case or *UPPER* case or a *MiX*.

Step 4

The first time you log in, the system asks you to choose a password which you will need to write twice. Create a memorable password so you do not forget it. Only a teacher can reset a student password, so choose carefully! (Maybe write it down inside the cover of your Maths book?). Passwords ARE case sensitive!



 The next time you log in, you'll just be asked for your password once.

If you have forgotten your password, click the link to request your teacher to reset it. They won't get the message until the next time they log in to HegartyMaths themselves, so don't leave your homework until the last minute!



This is a list of Hegarty clips and quizzes that run alongside the lessons we are doing this term.

- Type the clip number into the search bar on the Hegarty Maths website, and it will take you to the right video and quiz.
- Write the examples from the video in your Hegarty Maths book.
 Try to answer the examples before they are explained by Mr Hegarty are you getting them right or did you make some mistakes?
- Complete the quiz, writing out your process in your Hegarty maths book.
- Need some extra help? You can try the 'building blocks' tasks for some support on skills you might need
- Want to push yourself? Try the next clip to see where the maths will go!

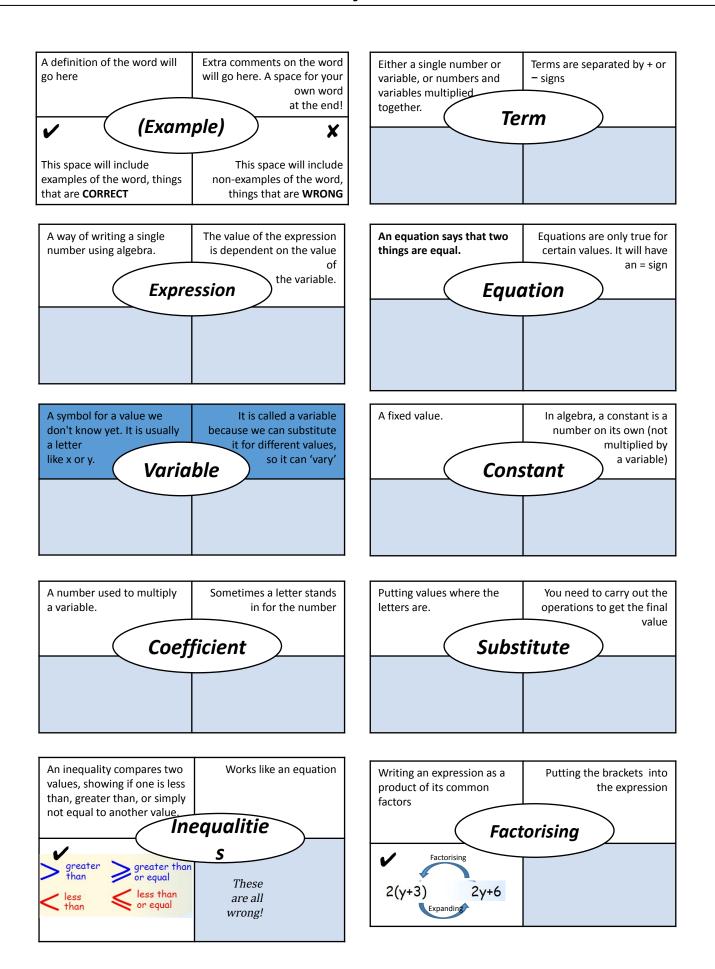
If you want some extra practice, or need some more help understanding what we covered in the lesson, you should try out the clip labelled 'consolidate'.

Once you have done these, or you want something a little harder to challenge yourself, try the clip labelled 'extend'.

When you have completed the task, you can tick it off here!

Autumn 2	Topic	Consolidate		Extend	
			1		1
Wook 1	eek 1	42		44	
VVEEK		43			
Week 2 and 3	Expressions	151		153	
		152			
	Collecting Like Terms	156		157	
	Expanding	160		162	
	Factorising	168		169	
	Balancing Equations	178			
Week 4 and 5	Inoqualitica	267		269	
	Inequalities			270	
Week 6	Exploring Equations and Inequalities	552			

Maths Vocabulary



Autumn Half Term Two : Algebra & Equations

Investigative Maths

On the next few pages are some investigations and challenges surrounding the topics you are doing.

Use the blank space to make notes to try out the investigations, and answer the questioned posed.

Some have right or wrong answers, but some are more open to what your thoughts on them might be!

Creepy Crawlies Investigation



Ross collects lizards, beetles and worms.

He has more worms than lizards and beetles together.

Altogether in the collection there are twelve heads and twenty-six legs.







If everyone in your (immediate) family had to shake each other person's hand, how many handshakes would it take?

Fill in the table below

Number of People	Total number of handshakes
1	
2	
3	
4	
5	
6	
7	

There is a special nan	ne for these numbers.	Google it and f	inc
out!			

The numbers are called	numbers

Imagine you have **two of each** of the 'weights' on the right.

1 4

Different combinations of the weights available allow you to make different totals.

-3 B

For example:

The largest total you can make is 20 (check you agree).

The smallest total you can make is - 60 (again, check you agree).

9 C

Can you make all the numbers in between?

Is there always a unique way of producing a total, or can different combinations produce the same total?



Note: You only have 2 of each weight

Weekly questions

Extend your learning online!

Here are some great websites and resources to extend your learning online!

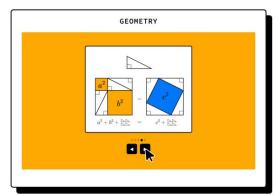


Nrich.com

Nrich has some great investigations, as well as daily and weekly puzzles.

Brilliant.org

Brilliant replaces lecture videos with hands-on, interactive lessons. It's a better (and more fun) way to learn.



Just need some practice?

Here are some interactive ways to practice your key maths skills.



Sumdog

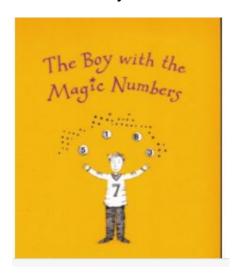
Engaging and multiplayer maths based games Proven to accelerate progress.

Khan Academy

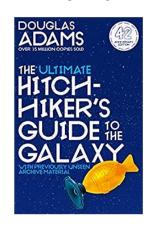
A nonprofit with the mission to provide a free, world-class education for anyone, anywhere.



Mr Hayes



Ms Ene

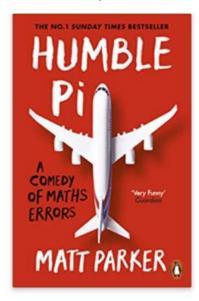


Ms LT



'Sushi Kokuu Hen'

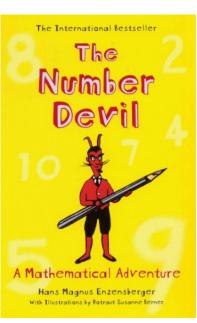
Mr Brown



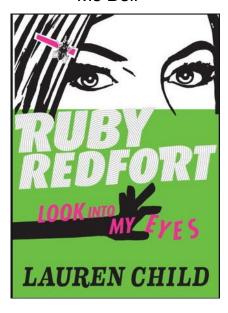
Recommended Reads!

Each maths teacher has suggested a maths based book you might enjoy!
Some fictional, some factual!

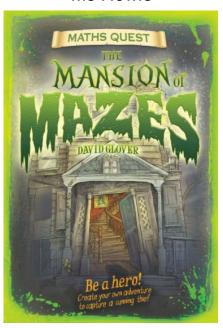
Mr Evans



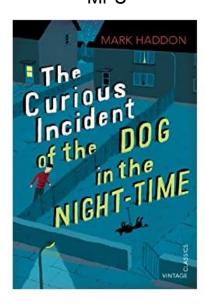
Ms Bell



Ms Howie



Mr U



For more information or guidance on completing your Independent Learning Booklet, speak to or email your Maths teacher:

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