



# KS3 Mathematics

Mr Davies

Head of KS3 Maths



# The KS3 Curriculum

- There will be a big focus on preparing students for GCSE
- Pupils need to consolidate knowledge from KS2
- Building new skills



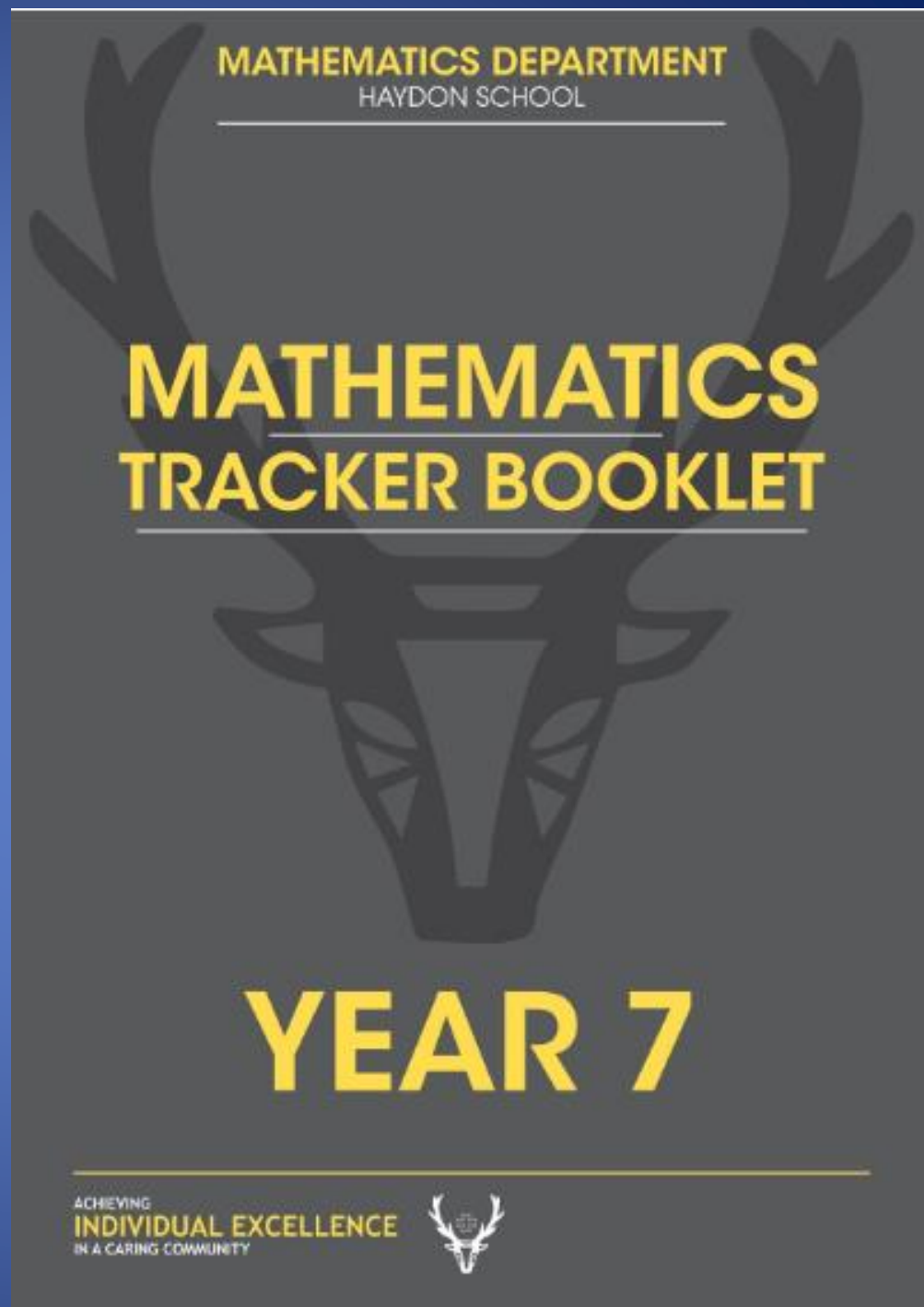
# The KS3 Curriculum

- Students will cover the following topics in Year 7:
  - Number properties
  - Fractions
  - Algebra
  - Calculations
  - Ratio and proportion
  - Angles
  - Probability
  - Graphs
  - Shape
  - Transformations
  - Data
  - Sequences
  - Construction
- We aim to improve the students' fluency and problem solving in each of these areas.

# Tracker Booklets

All students in year 7 will have a tracker booklet inside their exercise book.

Big focus on Home Learning!



MATHEMATICS DEPARTMENT  
HAYDON SCHOOL

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**MATHEMATICS  
TRACKER BOOKLET**

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**YEAR 7**

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ACHIEVING  
**INDIVIDUAL EXCELLENCE**  
IN A CARING COMMUNITY



# Tracker booklet



## 2: Fractions

	SUCCESS CRITERIA	✓	Hegarty Maths	Score
F	I understand that two fractions can be equivalent		59	
	I can identify a common factor of two numbers		27	
	I can simplify a fraction		61	
	I can write a fraction in its lowest terms		61	
	I can compare two fractions by considering equivalent fractions		60	
	I understand that a fraction is also a way of representing a division		57	
	I can add/subtract fractions with a common denominator		65	
D	I can multiply a proper fraction by a proper fraction		68	
	I can write one quantity as a fraction of another		62	
	I can write a fraction in its lowest terms by cancelling common factors		61	
	I can convert between mixed numbers and top-heavy fractions		63, 64	
	I can add/subtract fractions with a different denominator		66	
S	I can divide a proper fraction by a proper fraction		70	
	I can apply addition and subtraction to proper fractions, improper fractions and mixed numbers		66	
	I can multiply proper and improper fractions		69	
	I can multiply mixed numbers		69	
	I can divide using mixed numbers		70	
	I can find a fraction of an amount		77	
	E	I can identify if a fraction is terminating or recurring		72
I can solve problems that require exact calculation with fractions			80	
I can apply division to improper fractions and mixed numbers			70	
I can apply the four operations using fractions when solving problems			80	

SOW – linked skills to Hegarty maths

## ReAct to Topic Tests and Formal Assessments

ReAct Guidelines	
•	Have you marked and reActed in full to the assessment? i.e. written down methods for questions, not just ticks and crosses.
•	What are you most proud of for this assessment / topic - what do you feel went well (WWW)?
•	How would you grade your effort? Give a reason for the effort grade you've awarded yourself. See the table on the front page for guidelines.
•	Set yourself a target for improvement - be specific - what skills do you need to practice more? What clips on Hegarty would these be?

Topic Test 1 - Number Properties	
Score	
WWW	
Effort	
Target	

Topic Test 2 - Fractions	
Score	
WWW	
Effort	
Target	

React to topic tests  
Students highlight WWW/EBI  
Targeted homework

# Hegarty maths

www.hegartymaths.com



Algebra > Linear equations

## Substituting & solving



### Example

Given that  $7x - 3y = 11$

(i) Find  $x$  when  $y = 3$

(ii) Find  $x$  when  $y = -2$



ⓘ Spotted a mistake in this video?

## 189 - Substituting & solving

Learn how to substitute values into formula in order to solve for an unknown term.

📺 Video watched 0.00x

🕒 Your score **New lesson** HegartyMaths avg 50%

[Do quiz](#)



# PiXL Times Tables app



The screenshot displays the app's main menu with six activity options, each with a unique icon and a 'Begin activity' button:

- KNOWLEDGE**: Practice (no time limit). Icon: Brain with number 1. Button: [Begin activity](#)
- TIME ATTACK**: Beat your best times! Icon: Stopwatch with number 1. Button: [Begin activity](#) (Earn trophies)
- THE CHECK**: 25 timed questions. Icon: Stopwatch. Button: [Begin activity](#) (Earn trophies)
- TROPHIES**: Your rewards system. Icon: Trophy with 'Fastest Times' text. Button: [View](#)
- RAFT RUN**: Icon: Boy in a raft. Button: [Begin activity](#) (Earn trophies)

- Download the app to any device/laptop/computer
- Access via Login details (will be given to students in class)
- Practice, practice, practice



# How you can help...

- Ensure students complete two tasks a week and get 100% on Hegarty maths
- Encourage students to use the times tables app
- Make sure students are equipped for maths
- pen, pencil, rubber, sharpener, ruler (30cm), protractor, compass and a scientific calculator
- If you have concerns, contact class teacher





# Contact

– Head of KS3 Mathematics:

Mr Davies – [adavies55.312@lgflmail.org](mailto:adavies55.312@lgflmail.org)

– Any queries contact class teacher