

Fully Recommended by the DfE!

The whole-class mastery approach that works for every child









At the heart of **Power Maths** is the belief that all children can achieve. It's built on an exciting growth mindset and problem-solving approach.





Key aims of *Power Maths*

PoWer MATHS

Keeping the whole class progressing together

Providing rich problem solving to challenge and engage every child

Practical assessment to reveal misconceptions and inform speedy interventions

Nurturing a growth mindset and building children's confidence in maths



In a nutshell ...



- An exciting whole-class mastery approach for Reception to Year 6
- Written by mastery experts and inspired by best practice from around the world
- Fully recommended by the Department for Education
- Created specifically for UK classrooms
- Makes maths an adventure and helps build a culture of excitement and confidence!



What is mastery?



"Mastering maths means acquiring a deep, long-term, secure and adaptable understanding of the subject" - NCETM

We achieve this by ...

Carefully sequenced, small step learning

Developing mathematical thinking

Representation that expose mathematical structures

Building fluency



Growth mindset



Fixed mindset

"I'm not good at maths – I've never been good at maths"

"I give up – I can't make this any better"

"If I fail I am a failure"

"I can't do this – I keep making mistakes"

Growth mindset

"I'm finding maths hard now, but I can improve with time and effort"

"I can improve if I keep trying"

"Most successful people fail along the way"

"Mistakes help me learn"

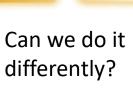


Meet the growth-mindset characters!



Flo

Flo is flexible and creative. She often with new methods to solve problems.





Dexter

Dexter is determined. When he makes a mistake he learns from it and tries again.

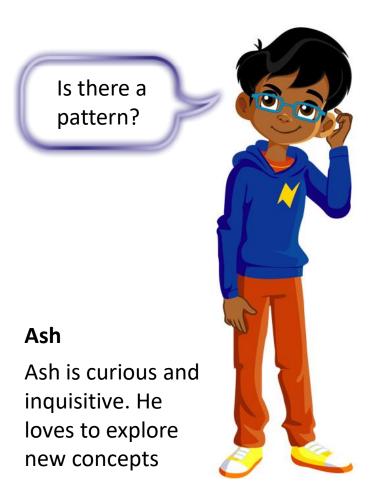
Let's try again!



Meet the growth-mindset characters!









See the lesson structure





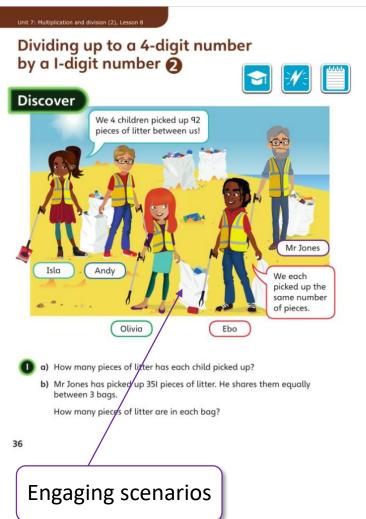
Same Day Intervention

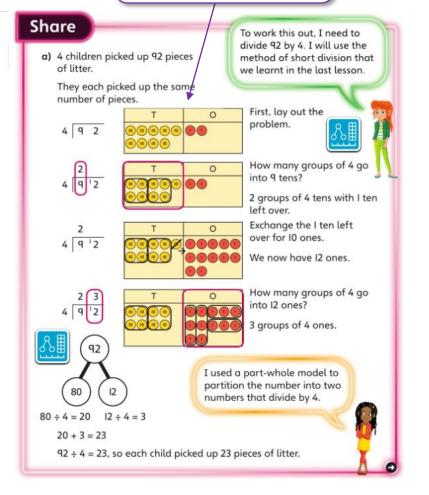




Discover and Share

Concrete-Pictorial-Abstract approach



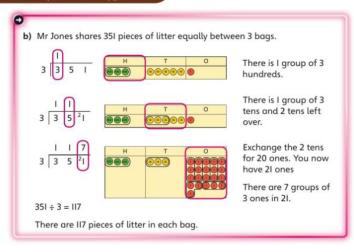




Think together

PoWer MATHS

Unit 7: Multiplication and division (2), Lesson I



Think together

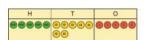
The children have a flask containing 575 ml of juice.

They share the juice equally among themselves and Mr Jones.

How much juice does each person get?

575 ÷ 5 =

Each person gets ml of juice.



Complete these short divisions.

a) 726 ÷ 6 =

6 7 2 6

Н	Т	0
	<u>•</u> •	00000

b) 522 ÷ 3 =

3 5 2 2

Н	Т	0	
00000	<u>••</u>	00	

a) Look at these division problems.

There are 312 eggs. How many boxes of 6 eggs can be made?

Divide I,980 by 2

485 ÷ 5

What is different about these divisions compared with the ones you have been doing so far?

b) Max tries to work out the third division problem. What mistake has Max made?

0 3 5 5 4 ¹7 ²5



I think there is something different in the first step of each division.



Friendly, supportive characters help children develop a growth mindset.

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Practice

Questions are presented in a logical sequence.

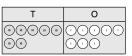


Unit 7: Multiplication and division (2), Lesson 8

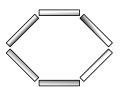
Dividing up to a 4-digit number, by a I-digit number 2

Mo is dividing 78 by 3. Complete his working.

3 7 8

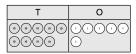


Olivia is making hexagons with straws, like this:

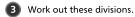


Olivia has 96 straws. How many hexagons can she make?

6 9 6



Oliva can make hexagons.



Unit 7: Multiplication and division (2), Lesson 8

Calculate the answers to these divisions.



What division does this bar model model represent?

Write the calculation and then solve it.

	2,4	54	



Isla has made a number and then divided her number by 4 using short division.

What mistake has Isla made?

	0	8	7	q	
4	I	³ 5	3	³ 6	

Th	Н	Т	0
050	000 100 100 100 100	(3)	0000

Fill in the missing numbers in these short divisions.

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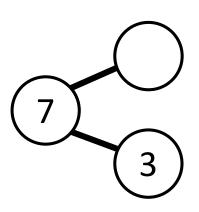
Calculations are connected so that children think about the underlying concepts.



Models and representations



Part-whole models



Shows how numbers can be split into parts. Helps show the connection between addition and subtraction.

Bar models

100	
	30

Helps show the maths problem as a picture.

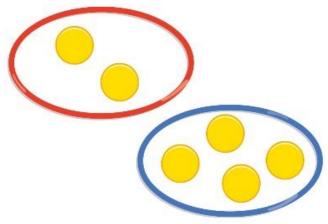


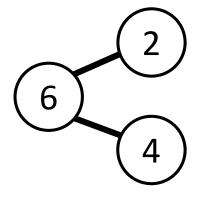


Models and representations









$$2 + 4 = 6$$



