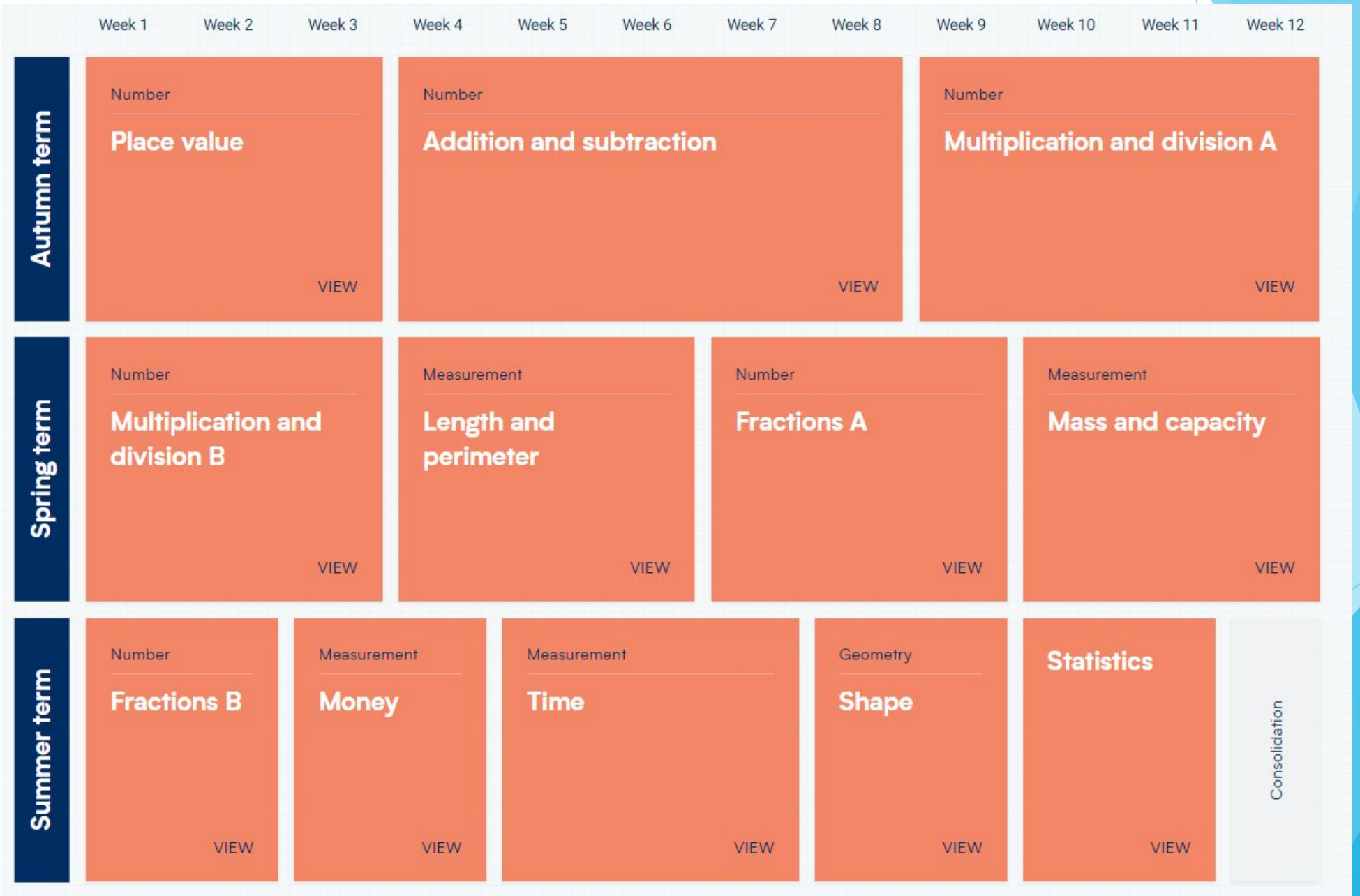
Maths in Year 3
2022-2023

Scheme of learning overview

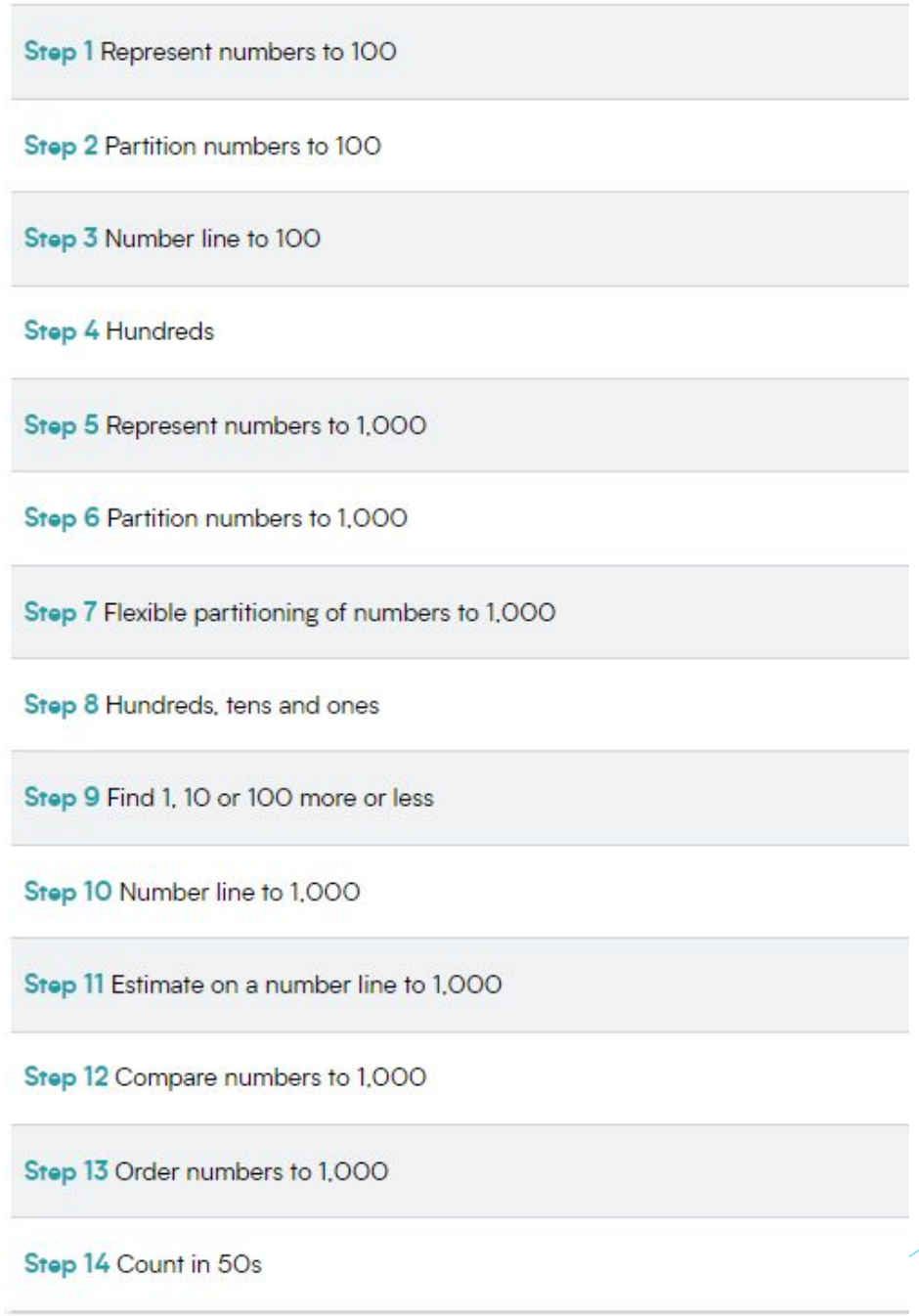


Each block of learning is split into small steps which informs our teaching and learning.

The blocks follow on from learning of the previous lesson within the unit.

As you can see here we looked at representing numbers to 100, then 1000. We then began to partition those numbers to 1000, compared and ordered them.

The progression through the block of learning then leads onto the next block of learning.



Practise:

Practise what you have learnt. Follow all the steps you have been taught to get to your answer.

Fluency:

Now you can do the basics, but how well do you understand what you are doing?
Can you apply what you know in different ways e.g. with different kinds of numbers or with the question written in different ways?

Reasoning:

There are questions you need to think through. You can work them out yourself based on what your already know. You need to look for patterns and relationships. You might come up with ideas and then test them out. You will need to explain how you got to your answer.

Problem Solving:

Can you apply what you know to solve different kinds of problems? Read your problem carefully. You may have to break the problem down into smaller steps and then check your answer is correct at each step. When you think you have the final answer, check it answers the question you are being asked. Don't' give up – be resilient!

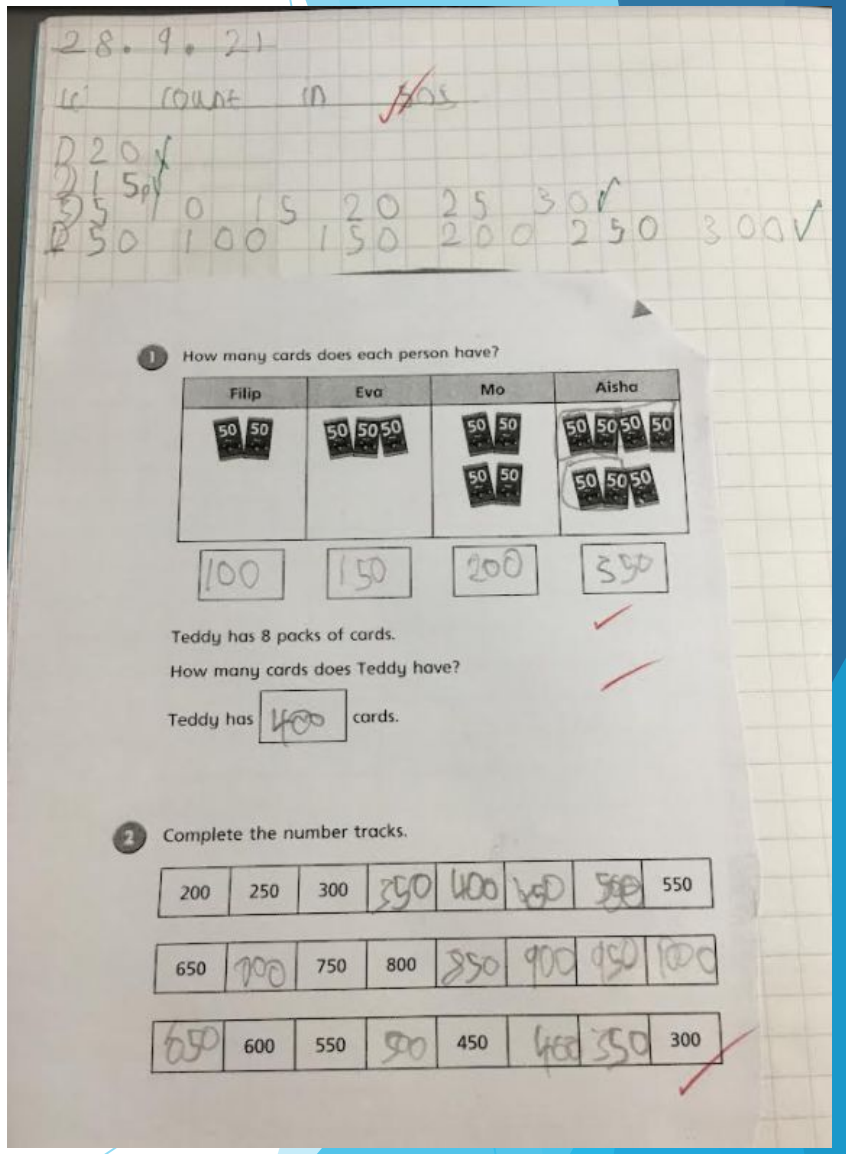
Expectations for Year 3

- Children change from larger squares to smaller squares. Presentation in maths books is really important.
- Children need to be able to use efficient methods to solve problems accurately.
- Continue to focus on problem solving and reasoning skills.

Presentation

- Often it was found that children struggled to find the correct answer because they were unable to follow their working out.

- Encourage to cross out mistakes rather than use a rubber so that we can support them through their mistakes



Problem Solving and Reasoning

- Continue to focus on problem solving and reasoning.
- Children will still need to use these daily and at their level.
- Children will be taught how to solve more opened ended problems and to explain their thinking.
- Some lessons will focus on problem solving skills so they have time to apply their knowledge.
- Bar models and stem sentences will support these.

Examples of Year 3 Maths Problems and reasoning .

Complete the sentences to describe each number.

There are ☐ hundreds, ☐ tens and ☐ ones.

The number is ☐

a)

Hundreds	Tens	Ones
100 100 100 100 100	10 10	1 1 1 1 1 1 1 1

b)

Hundreds	Tens	Ones
100 100	10	1 1 1 1 1 1 1

What numbers are shown in the place value charts?

a)

Hundreds	Tens	Ones
100 100 100		1 1 1 1

b)

Hundreds	Tens	Ones
100 100 100	10 10 10 10	

2 Complete the number tracks.

200	250	300					550
650		750	800				
	600	550		450			300

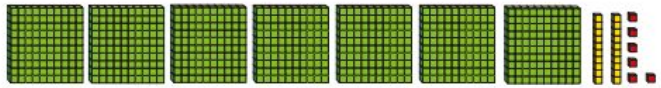
Work out the additions.

a) 572 + 45

	H	T	O
	100 100 100 100 100	10 10 10 10 10 10 10	1 1
+		10 10 10 10	1 1 1 1 1

		5	7	2		
	+		4	5		

2 Filip makes the number 726



Cross out the hundreds to help you complete the number sentences.

a) 726 − 100 = ☐

b) 726 − 200 = ☐

c) 726 − 400 = ☐

d) 726 − 700 = ☐

3 Complete the number sentences.

a) 400 + 300 = ☐

430 + 300 = ☐

439 + 300 = ☐

300 + 477 = ☐

b) 700 − 200 = ☐

780 − 200 = ☐

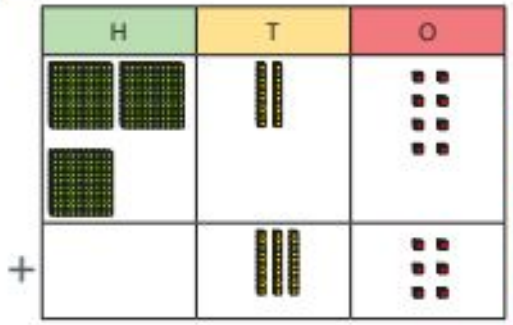
783 − 200 = ☐

701 − 200 = ☐

What patterns do you notice?

Add 2-digit and 3-digit numbers

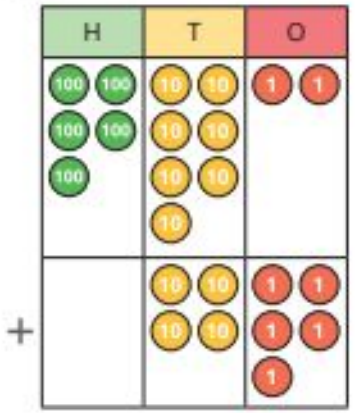
1 Use the place value chart to work out 328 + 36



		3	2	8	
	+		3	6	

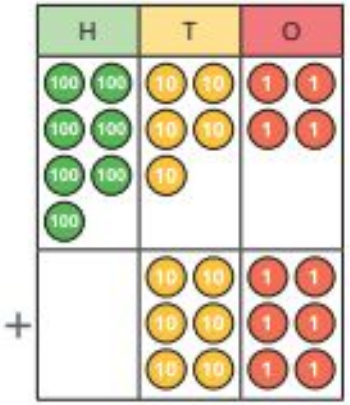
2 Work out the additions.

a) 572 + 45



		5	7	2	
	+		4	5	

b) 754 + 66



		7	5	4	
	+		6	6	

3 Work out the additions.

a)

		1	7	5	
	+		7	2	

b)

		3	0	7	
	+		8	4	

c) 35 kg + 239 kg

d) 845 + 72

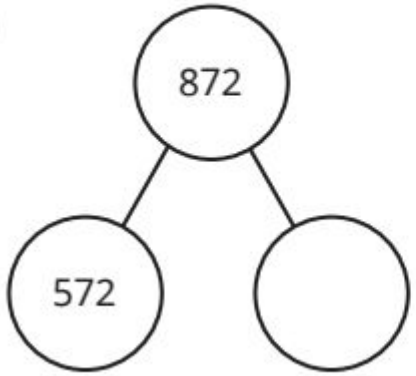
e) 436 + 85

f) £739 + £68

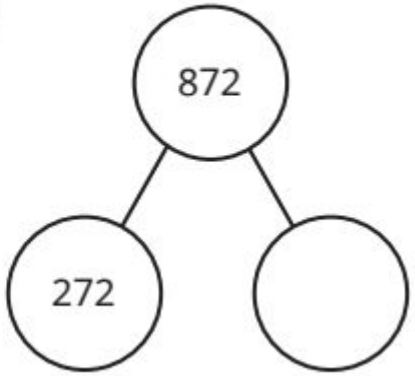
Different question types

4 Complete the part-whole models.

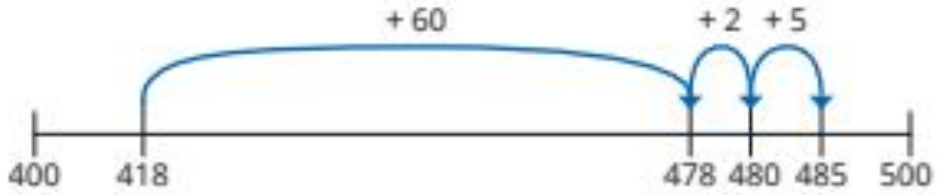
a)



b)



7 Mo uses a number line to work out an addition.



What addition has Mo worked out?

8 Mrs Lee wants to buy a new computer.

She has saved £287

Each month she saves another £100

How many more months will it take Mrs Lee to save enough to buy the computer?

Battle of the Blues

- Children will take regular tests to check their number bond levels and times tables levels.
- The children will progress through the levels (Bronze, Silver, Gold and Blue) and try and answer all of the questions in the time given.
- Regular practising of these skills at home will help support the children to Beat the Blues and meet the standard.
- Mathletics and TTrockstars are both good websites that they can use at home to support these skills.
- These will also help children to prepare for the Year 4 times table tests next year.

Resources to help

Maths

http://www.mathsisfun.com/
http://www.topmarks.co.uk/maths-games/7-11-years/problem-solving
http://www.mathschamps.co.uk/
http://www.primarygames.com/math.php
http://resources.woodlands-junior.kent.sch.uk/maths/
http://www.primaryinteractive.co.uk/maths.htm
http://www.bbc.co.uk/skillswise
https://ttrockstars.com/

https://community.mathletics.com

https://classroom.thenational.academy/subjects-by-year/year-3/subjects/maths