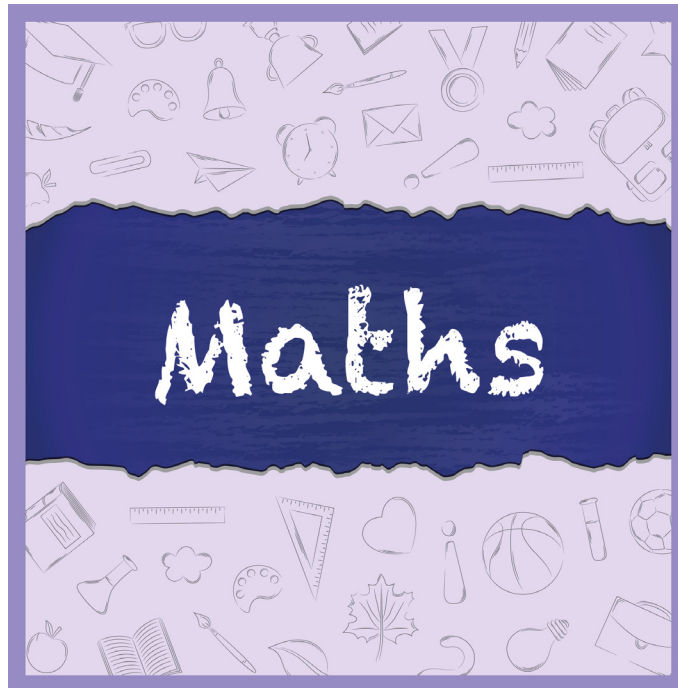**PLANNING TOGETHER. LEARNING TOGETHER.**

YEAR 6

Maths at home for Parents and Carers
Place value and addition and subtraction

This short leaflet covers the Core Concepts and ideas that your child will need to know this year.

You will find suggestions for games to play, activities to do and websites to access to support you, as your support your child.

'Catch-up Funding'
offer for schools
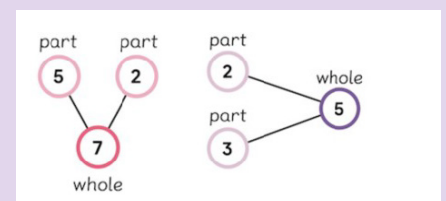
Websites and Links

Equipment

Many of the activities included in this helpful leaflet will not require any special equipment. If you have access to online resources this will be useful but not essential when supporting your child.

Maths Words and Phrases

- A **digit** - 0, 1, 2, 3, 4, 5, 6, 7, 8 and 9 are the ten **digit**s we use in everyday numerals. Example: The numeral 153 is made up of 3 **digits** ("1", "5" and "3").
- The position (place) of a digit in a number determines its value. Hence the term place value
- When a calculation can be completed either way we say it's **commutative. 3 + 7 = 10 and 7 + 3 = 10**.
- **Number Bonds** are the addition of 2 numbers that add to a third number.
- The image on the right is called a **part-whole model**.
- The **sum** of 5+4 is 9.

Key Learning 1

- Understand the value of each digit in numbers up to 10 million.

GAMES & IDEAS

✓
- Look at the populations of 5 countries.
- Order them.

✓
- Use some paper or a white board.
- Draw a line on it. Mark the beginning with 0 and the end with 1,000,000. Divide the line into 2 parts, label them, now 4 parts, label them.
- What other numbers could you include on your number line?

✓
- Make a simple place value chart .
- Take some playing cards and choose 10 (not royal cards or 10 cards)
- Place them in the chart and say the number. Who made the biggest number?

PLACE VALUE CHART

Billions			Millions			Thousands			Ones		
Hundred Billions	Ten Billions	Billions	One Hundred Millions (100,000,000)	Ten Millions (10,000,000)	Millions (1,000,000)	One Hundred Thousands (100,000)	Ten Thousands (10,000)	Thousands (1,000)	Hundreds (100)	Tens (10)	Ones (1)
				8	5	0	2	6	1	3	9

GAMES & IDEAS

✓ • Look at twitter and write down the amount of followers the following people have: Barack Obama, Michael Jordan, Rhiannon, Lionel Messi, Little Mix. Order them.

✓ • Can you research the capacity of 5 football stadiums.
   • If you were to add them all up, how many people could they hold?

✓ • If you would like to watch a teaching video about numbers up to a million, here is a link: www.youtube.com/watch?v=Abqp3j-Qtrw.

✓ • For this game you will need two dice and some paper and a partner. The aim is to make the biggest number you can!
   • Take turns to roll the die and decide where to put the number.
   • You each have your own grid. E.g. I'm making the biggest number so if it's a 1, I'll put it in the tenths space.

						•	

Key Learning 2

- Be able to locate numbers up to 10 million on a number line.
- Compose and decompose numbers.

GAMES & IDEAS

✔
- £25.75 we read this number as twenty five pounds and seventy five pence.
- We can partition this amount like this: £20 + £5 + £0.70 + £0.05 **or** £20 + £5 + 70p + 5p.
- Look at a receipt from the shopping. Choose 5 amounts.
- Order these amounts on a number line. Partition these amounts. If you have time, you could add all the amounts up!

✔
- Turn over 6 cards.
- Make a number. Now round that number to the nearest 100, the nearest 1000, the nearest 10,000.
- What numbers do you have now?

✔
- Create seven digit numbers where he digit sum is 8 and he tens of thousands digit is two. E.g. 4020000
- What's the largest /smallest number you can make?

✔

GAMES & IDEAS

- Draw a number line 0—10 million and place these cities in the appropriate places. How will you divided your number line?

City	Population
London	8,907,918
Birmingham	1,153,717
Glasgow	612,040
Liverpool	579,256
Bristol	571,922
Manchester	554,400
Sheffield	544,402
Leeds	503,388
Edinburgh	488,050
Leicester	470,965