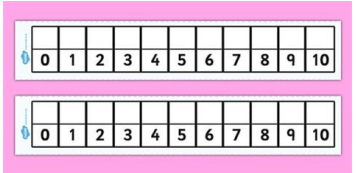
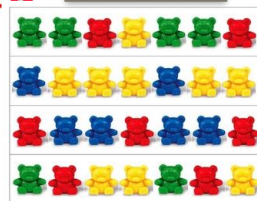
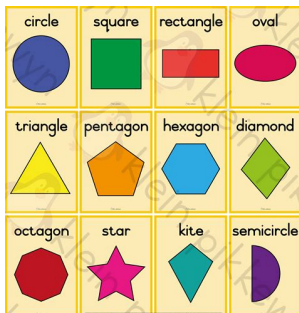
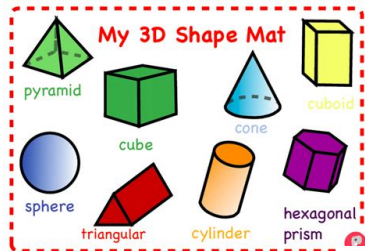
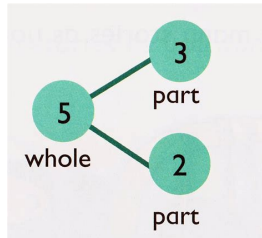
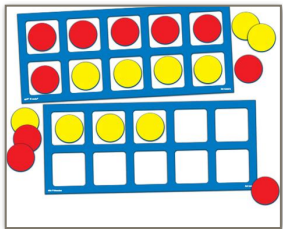


Manipulatives and models



1		6	
2		7	
3		8	
4		9	
5		10	



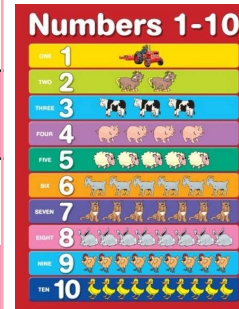
Reception Knowledge Organiser: Mastery Mathematics

Key Vocabulary

counting	Knowing that one number represents one thing and that the last number we say is how many there are in a set. It is also being able to say the numbers in the correct order.
digit	The 9 different digits we use to represent any number: 0,1,2,3,4,5,6,7,8,9
adding	Putting more than one group together. When we add we end up with more.
subtracting	Taking away objects from a group. When we subtract we end up with less.
part part whole model	Every number is made of different numbers. The part, whole model helps us see the different parts of a whole.
grouping	Sort objects into groups depending on what is the same and what is different.
compare	Notice the difference between two or more things.
subitise	How we know how many there are in a group without counting.
height	How tall something is.
length	How long something is.
weight	How heavy something is.
time	The hour or minutes, week, month or year. How long something is happening.
fewer and more	Comparing groups of objects.
greater and less	Comparing numbers.
tally	Use marks to record our counting



We use maths everyday to help us in everything we do, for example when we cook, build, tell the time or remember how old we are. There are two key areas of maths: number and spatial reasoning.



In maths we will learn to count to 20 and beyond, read and write numbers to 10. We will have a deep understanding of the composition of numbers to 10 and especially numbers to 5. We will know about doubles to 5 and halves of 10, odd and even numbers to 10 and how to show equal groups of objects. We will know when groups have more or fewer objects. We will be able to perceptually subitise to 5 and conceptually subitise to 6. We will celebrate our marvellous mistakes - these help us learn. We will talk about our maths and our thinking and we will find ways to record our mathematical ideas. We will explore spatial reasoning through seeing and making patterns with shapes, objects, numbers. We will build and print using symmetry, repeating patterns, patterns within patterns and all kinds of shapes.