



## Maths Knowledge Organiser for Reception

Term: Autumn 2

### Key vocabulary:

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| <ul style="list-style-type: none"><li>● Number names e.g. one, two three</li><li>● Point</li><li>● Count</li><li>● Composition</li><li>● Subitizing</li></ul> | <ul style="list-style-type: none"><li>● Shapes – triangle, square, circle, rectangle</li><li>● Daily Routines - morning, afternoon, night</li><li>● Positional language - next to, under, beside, on in, inbetween</li><li>● Length – long, short, longest, shortest</li></ul> |
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### Curriculum Objectives

- Develop fast recognition of up to 3 objects, without having to count them individually ('subitising').
- Recite numbers past 5.
- Say one number for each item in order: 1,2,3,4,5.
- Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle').
- Show 'finger numbers' up to 5.
- Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5.
- Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc.
- Combine shapes to make new ones – an arch, a bigger triangle etc.
- Count objects, actions and sounds.
- Link the number symbol (numeral) with its cardinal number value.
- Count beyond ten.
- Compare numbers.
- Understand the 'one more than/one less than' relationship between consecutive numbers.
- Explore the composition of numbers to 10.
- Automatically recall number bonds for numbers 0-5 and some to 10.
- Select, rotate and manipulate shapes to develop spatial reasoning skills.

### Examples

Look at numbers in the environment - can you collect 3 objects on a walk or find numbers on a road sign or house door.

Use counters to create different ways of making 2,3,4,5 - e.g. 'Let's make 3. We can put 2 counters and 1 more counter to make 3.' Encourage your child to record this by drawing the counters then extending them by writing the number sum - e.g.  $2 + 1 = 3$

Look at shapes in everyday objects. Talk about how many sides they have. Use bricks at home to encourage your child to select a specific shape to create a window or door.

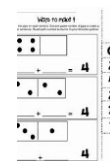
Play simple board games to encourage recall of number patterns on the dice.

Talk about your daily routine.

Talk about the difference between day and night.

Use positional language in everyday conversations - e.g. can you sit next to daddy for your tea.

Collect objects and ask your child to point to each object slowly saying the number name - challenge by matching numerals to the objects.



For more information please see the calculation policy on the school website or your child's class teacher.