

# Mathematics links to the Early Years Foundation Stage Framework at Birdlip

The following table outlines some of the curriculum links that can be made between Mathematics and areas of learning within the Early Years Foundation Stage.

- These may include prerequisite skills that are necessary to the understanding of Mathematics.
- In their on-going provision, children have access to a range of Mathematical resources such as number lines, ten frames, number formation cards, numicon and dice etc.
- Children are encouraged to access self-help resources within their Maths activities independently e.g. use of a number line to help with formation.
- The classroom has displays of number representations, large numberlines with corresponding numicon pieces and children's independent Mathematical recording is frequently added to the 'Wall of Wonder'.
- When a new concept or word is used within Mathematics, it is displayed on the 'Word Wall' and introduced as new vocabulary which is constantly referred back to.
- Each week, a Mathematics challenge is set up in a tuft tray in the classroom related to the previous week's learning. This is done to consolidate previous learning and deepen understanding. This is changed and enhance during the week, depending on observations of the children and their interests.

| Mathematical Vocabulary |                            |          |                                                                                                                                                                                   |
|-------------------------|----------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reception               | Communication and Language |          | <ul style="list-style-type: none"> <li>• Learn new vocabulary.</li> <li>• Use new vocabulary throughout the day.</li> </ul>                                                       |
| ELG                     | Communication and Language | Speaking | <ul style="list-style-type: none"> <li>• Participate in small group, class and one-to-one discussions, offering their own ideas, using recently introduced vocabulary.</li> </ul> |

| Number and Place Value                           |             |                    |                                                                                                                               |
|--------------------------------------------------|-------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Counting                                         |             |                    |                                                                                                                               |
| Reception                                        | Mathematics |                    | <ul style="list-style-type: none"> <li>• Count objects, actions and sounds.</li> <li>• Count beyond ten.</li> </ul>           |
| ELG                                              | Mathematics | Numerical Patterns | <ul style="list-style-type: none"> <li>• Verbally count beyond 20, recognising the pattern of the counting system.</li> </ul> |
| Identifying, Representing and Estimating Numbers |             |                    |                                                                                                                               |

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|           |             |                                                                                                                                           |
|-----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Reception | Mathematics | <ul style="list-style-type: none"> <li>• Subitise.</li> <li>• Link the number symbol (numeral) with its cardinal number value.</li> </ul> |
|-----------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|

|                                                           |             |                    |                                                                                                                                                                                                                                        |
|-----------------------------------------------------------|-------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ELG                                                       | Mathematics | Number             | <ul style="list-style-type: none"> <li>• Subitise (recognising quantities without counting) up to 5.</li> </ul>                                                                                                                        |
| <b>Reading and Writing Numbers</b>                        |             |                    |                                                                                                                                                                                                                                        |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Link the number symbol (numeral) with its cardinal number value.</li> </ul>                                                                                                                   |
| <b>Compare and Order Numbers</b>                          |             |                    |                                                                                                                                                                                                                                        |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Compare numbers.</li> </ul>                                                                                                                                                                   |
| ELG                                                       | Mathematics | Numerical Patterns | <ul style="list-style-type: none"> <li>• Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.</li> </ul>                                     |
| <b>Understanding Place Value</b>                          |             |                    |                                                                                                                                                                                                                                        |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Understand the 'one more than/one less than' relationship between consecutive numbers.</li> <li>• Explore the composition of numbers to 10.</li> </ul>                                        |
| ELG                                                       | Mathematics | Number             | <ul style="list-style-type: none"> <li>• Have a deep understanding of numbers to 10, including the composition of each number.</li> </ul>                                                                                              |
| <b>Solve Problems</b>                                     |             |                    |                                                                                                                                                                                                                                        |
| <b>Addition and Subtraction</b>                           |             |                    |                                                                                                                                                                                                                                        |
| <b>Mental Calculations</b>                                |             |                    |                                                                                                                                                                                                                                        |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Automatically recall number bonds for numbers 0-10.</li> </ul>                                                                                                                                |
| ELG                                                       | Mathematics | Number             | <ul style="list-style-type: none"> <li>• Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</li> </ul> |
| <b>Solve Problems</b>                                     |             |                    |                                                                                                                                                                                                                                        |
| ELG                                                       | Mathematics | Numerical Patterns | <ul style="list-style-type: none"> <li>• Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed evenly.</li> </ul>                                       |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Subitise.</li> <li>• Link the number symbol (numeral) with its cardinal number value.</li> </ul>                                                                                              |
| <b>Measurement</b>                                        |             |                    |                                                                                                                                                                                                                                        |
| <b>Describe, Measure, Compare and Solve (All Strands)</b> |             |                    |                                                                                                                                                                                                                                        |
| Reception                                                 | Mathematics |                    | <ul style="list-style-type: none"> <li>• Compare length, weight and capacity.</li> </ul>                                                                                                                                               |

| Properties of Shapes                            |             |                                                                                                                                                                             |
|-------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recognise 2D and 3D Shapes and their Properties |             |                                                                                                                                                                             |
| Reception                                       | Mathematics | <ul style="list-style-type: none"> <li>Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</li> </ul>                                        |
| Compare and Classify Shapes                     |             |                                                                                                                                                                             |
| Reception                                       | Mathematics | <ul style="list-style-type: none"> <li>Compose and decompose shapes so that children can recognise a shape can have other shapes within it, just as numbers can.</li> </ul> |

| Position and Direction           |                         |                                                                                                 |
|----------------------------------|-------------------------|-------------------------------------------------------------------------------------------------|
| Position, Direction and Movement |                         |                                                                                                 |
| Reception                        | Understanding the World | <ul style="list-style-type: none"> <li>Draw information from a simple map.</li> </ul>           |
| Patterns                         |                         |                                                                                                 |
| Reception                        | Mathematics             | <ul style="list-style-type: none"> <li>Continue, copy and create repeating patterns.</li> </ul> |



