

## Your child in Year 1

We want all of our children to develop excellent fluency, reasoning and problem solving skills so they become well rounded mathematicians.

Maths is taught as a discrete subject but is further developed through a range of opportunities and experiences across the curriculum. We would also encourage children to develop these skills at home so it important that families talk to their children about their learning in maths using vocabulary which is appropriate to Year 1.

At Thorns, we are developing a curriculum approach that is underpinned by Chris Quigley Essentials; in this way we aim to develop mastery and depth of learning, rather than a tick list approach. For this reason, you will notice that expectations for children look the same in years 1 & 2, years 3 & 4 and years 5 & 6. this is deliberate and does not mean that children do the same things in each of the two years, it simply means that thy will have opportunities to revisit learning and in this way develop it further.

### Essential characteristics of mathematicians:

- *An understanding of the important concepts and an ability to make connections within mathematicians.*
- *A broad range of skills in using and applying mathematics.*
- *Fluent knowledge and recall of number facts and the number system.*
- *The ability to show initiative in solving problems in a wide range of contexts, including the new or unusual.*
- *The ability to think independently and to persevere when faced with challenges, showing a confidence of success.*
- *The ability to embrace the value of learning from mistakes and false starts.*
- *The ability to reason, generalise and make sense of solutions.*
- *Fluency in performing written and mental calculations and mathematical techniques.*
- *A wide range of mathematical vocabulary.*
- *A commitment to and passion for the subject.*

The children will regularly be given opportunities to progress towards proficiency in the following objectives:

### Essential learning objectives

- To understand the properties of shapes
- To describe position, direction and movement
- To use measures
- To use statistics
- To use algebra

### Essentials for progress: Milestone 1

*To understand the properties of shapes*

- *Name common 2D and 3D shapes.*
- *Recognise and name common 2D and 3D shapes.*
- *Draw polygons using a ruler.*
- *Identify sides, faces, right angles and symmetry in shapes.*
- *Recognise edges, vertices and faces in 3D shapes.*
- *Identify 2D shapes on the faces of 3D shapes.*
- *Compare and sort 2D shapes and 3D shapes.*

*To describe position, direction and movement*

- *Describe position, direction and movement using : left/right, up/down, top/middle/bottom, front/behind/around/near/far/inside/outside, etc.*
- *Use right angles to describe rotation for quarter, half and three quarter clockwise and anti-clockwise turns.*
- *Describe movement in a straight line.*

*To use measures*

- *Measure and compare: length and height (m/cm), mass (g/kg), capacity and volume (l), time (h/min/sec).*
- *Solve problems.*
- *Choose and use standard units to estimate and measure length/height, mass, temperature, volume/capacity using appropriate rulers, scales, thermometers and measuring vessels.*
- *Compare and order measurements using the signs  $< = >$ .*
- *Read scales.*
- *Tell, draw and write the time to the nearest 5 minutes.*
- *Use £ and p to make amounts, add and subtract (£-£, p-p).*

*To use statistics*

- *Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.*
- *Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity*
- *Ask and answer questions about totalling and comparing categorical data*

*To use algebra*

- *Solve addition and subtraction problems involving missing numbers..*

In school, we will ensure that we take every opportunity to encourage the children to develop as mathematicians.

**Essential opportunities - Key Stage 1**

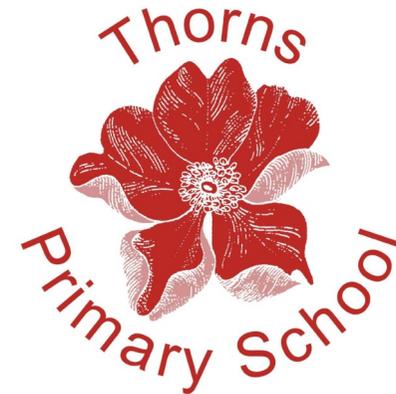
- Explore the properties of shapes.
- Use language to describe position, direction and movement.
- Use and apply in practical contexts a range of measures, including time.
- Handle data in practical contexts.

***Please speak to your child's teacher if you have any questions or would like further help or advice.***

# Thorns Primary School

## Information for Parents: **SHAPE, SPACE and MEASURES**

YEAR 1



Thorns Primary School  
Thorns Road  
Quarry Bank  
DY5 2JY  
01384 818285

**Please keep this reference guide safe as it gives you an overview of the curriculum coverage for your child's year group.**