

## **Maths Overview Year 4/5 Class Seven Week commencing 20<sup>th</sup> / 27<sup>th</sup> April**

### **Topic-Area and Perimeter.**

#### **Key learning:**

To measure and calculate the perimeter of rectangles in centimetres and millimetres.

To draw rectangles with differing perimeters in cm and mm.

To calculate the perimeter of rectangles in metres and centimetres.

To measure and calculate the perimeter of composite rectilinear shapes in centimetres and millimetres.

To measure and calculate the perimeter of composite rectilinear shapes in metres and centimetres.

To understand that area is a measure of surface and that it is measured in square units.

To find the area of rectangles.

To calculate and compare the area of rectangles (including squares), using square centimetres.

To calculate and compare the area of rectangles (including squares) using square metres.

To investigate the relationship between area and perimeter.

#### **Things that sometimes go wrong:**

Sometime pupils forget that there are different maths words that mean the same thing. You can avoid this by completing and using the Maths vocabulary sheet. Make sure your child uses the Maths vocabulary when talking about their Maths work.

Pupils don't always realise the importance of making measurements as accurately as possible.

Some pupils may miss out lengths of a given shape when they have not been written in. Remind pupils that they must calculate all sides of a shape even if the number is missing.

Pupils may lose count or mix up different units of measure when calculating with metres and centimetres, or centimetres and millimetres. Some strategies to avoid this are: 1. Crossing off numbers when they have been counted. 2. Counting all the numbers within one unit of measure before moving onto the next, before finally converting. 3. Writing the converted number next to the original number and then calculating.

**This is a new topic but one the children will have covered last year.**

Maths vocabulary for this unit.

|           |  |
|-----------|--|
| Perimeter | The distance around a shape. This is calculated by adding up the length of the sides.  |
| Area      | The amount of space taken up by a shape. We measure area in square units. E.g. $\text{cm}^2$ We calculate area by multiplying the length of a shape by the width of a shape. |
| Length    | The distance between two points. How long a shape is.  |
| Breadth   | The distance between two points. How broad a shape is. Synonym of width.   |
| Width     | A distance between two points. How wide a shape is.  |
| Distance  | How far from one point to another.   |

**Tasks for all children:**

Go to [https://www.youtube.com/watch?v=rSVMrPu0\\_U](https://www.youtube.com/watch?v=rSVMrPu0_U) and watch the area and perimeter song. Then go to <https://www.youtube.com/watch?v=gNqml0f16QI> to watch some real life examples of area and perimeter.

In your pack, you will find two sets of maths lessons. The first set will focus on perimeter and the second on area. Each lesson has a few different tasks the children will recognise from our usual maths lessons. Don't worry if you are not available to be your child's talk partner. I know it is hard to balance working from home, caring for your family and trying to help with learning. They can complete the task by themselves but please do encourage them to talk to themselves out loud about the process they are following.

There are four lessons in each pack and each lesson has an optional challenge task. If there are any questions, please send me a dojo message and I will respond as soon as possible. Usually we have five maths lessons a week but I have left one as free time for your child to use to learn times tables or consolidate their learning in any way you feel appropriate.

**Extension activities:**

Below are extra maths activities to practise and develop maths skills.

On line links-

Maths with parents - <https://www.mathswithparents.com/KWeb?startTime=1585753697262#menu537017> Class code: **982968**

Timestables - <https://www.timestables.co.uk/>

Timestables - <https://www.doxdirect.com/printable-times-tables/> This site allows you to order some free timestable worksheets to be posted to you. You can also download unlimited times table worksheets for free.

Problem solving maths games - <https://www.topmarks.co.uk/maths-games/7-11-years/problem-solving>