

# Maths at Castle Primary School

# National Curriculum 2014 onwards

The national curriculum for mathematics aims to ensure that **all pupils**:

- become **fluent** in the fundamentals of mathematics, including through **varied and frequent** practice with increasingly complex problems over time, so that pupils develop **conceptual understanding** and the ability to recall and apply knowledge rapidly and accurately
- **reason** mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, **justification or proof using mathematical language**
- can **solve problems** by applying their mathematics to a variety of routine and non-routine problems with **increasing sophistication**, including breaking down problems into a series of simpler steps and **persevering in seeking solutions**

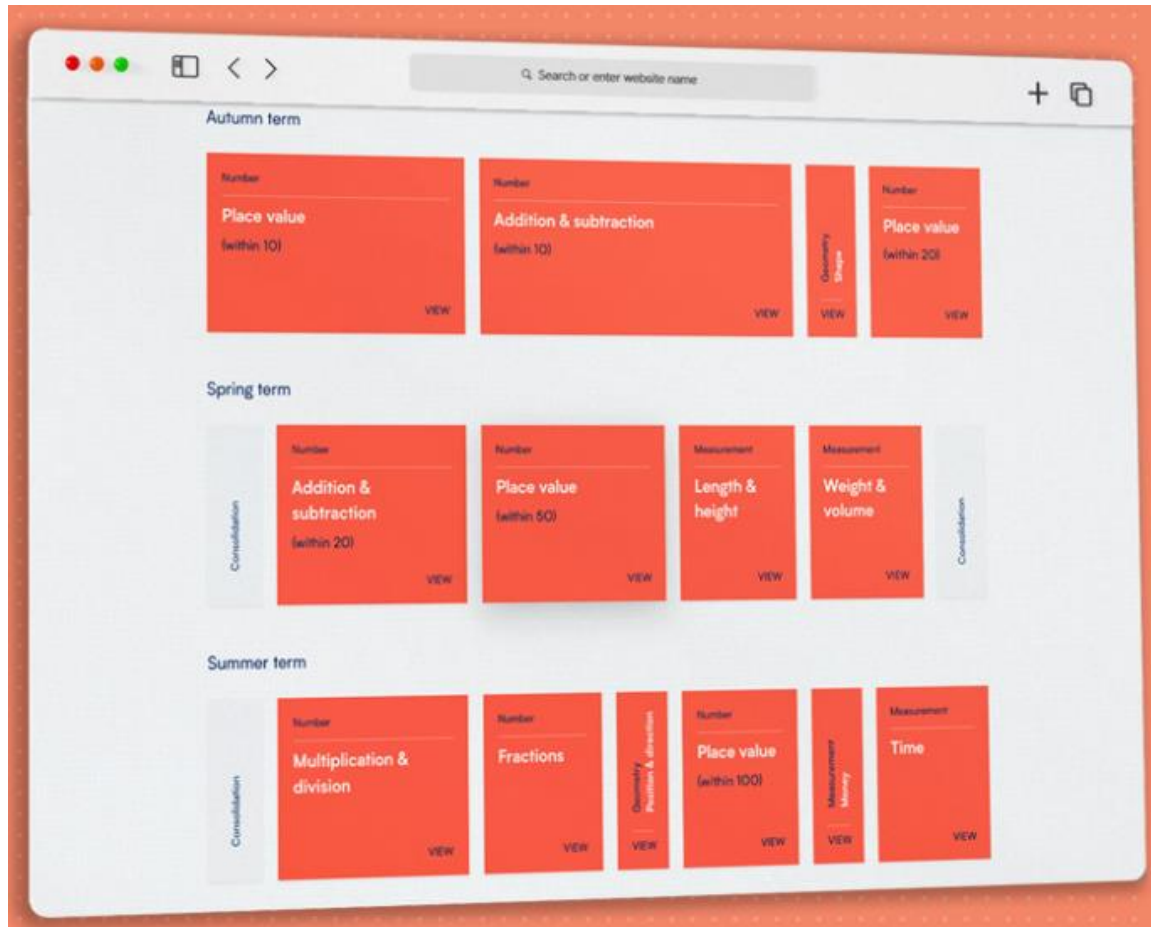
**EVERYONE CAN DO MATHS:**

**EVERYONE CAN!**



We use the award-winning White Rose Maths to underpin our mathematics curriculum throughout the Primary Phase. White Rose resources are all aimed at one thing: helping every child and young person to understand, enjoy and succeed in maths. This is achieved by developing *understanding*. By truly *understanding* each maths concept and by mastering learning one step at a time, **EVERYONE CAN DO MATHS: EVERYONE CAN!**

# Blocks of learning



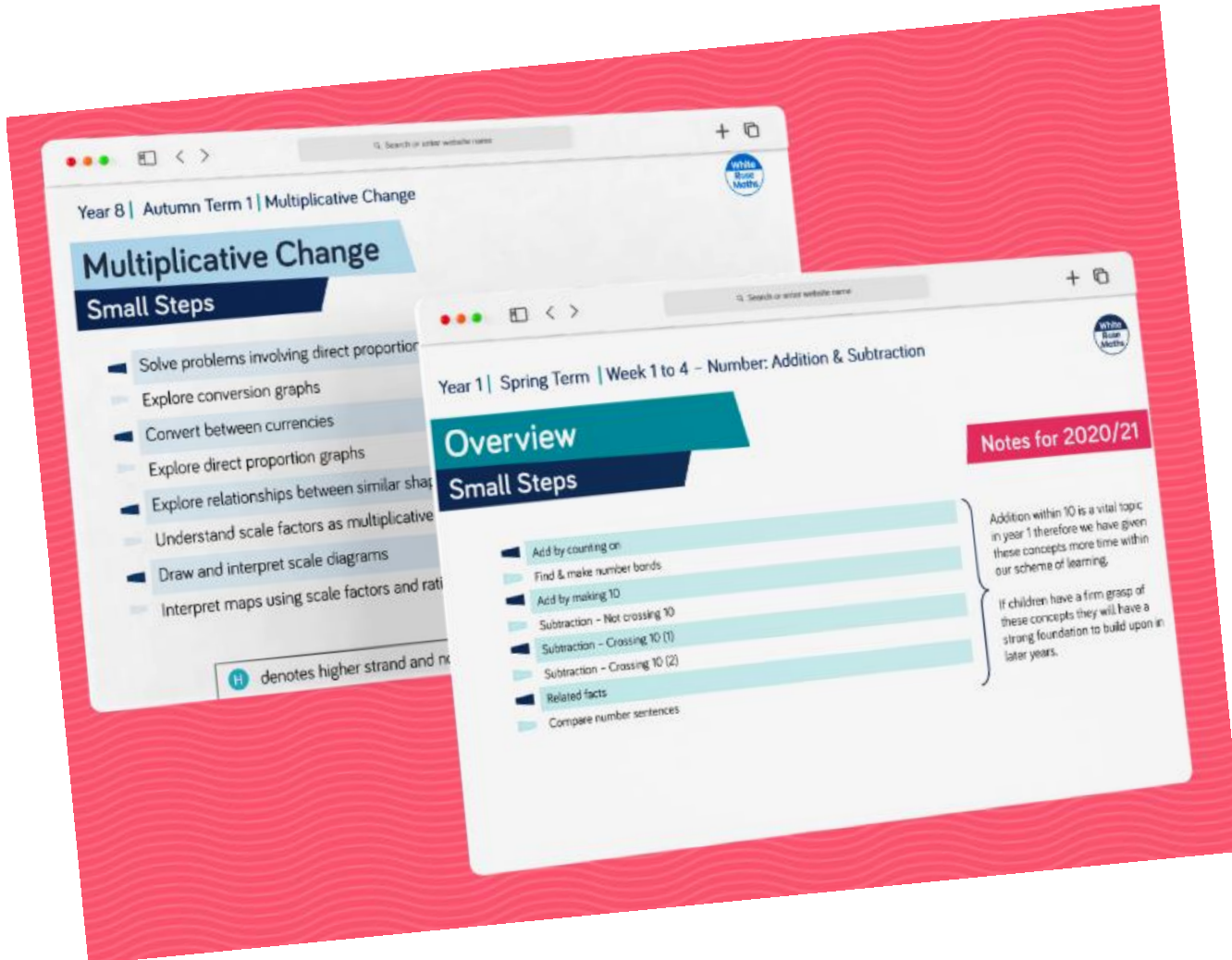
For each year group, the scheme of learning includes an overview of the maths that your child should be learning at any point in the year.

Each year is split into three terms (autumn, spring and summer), and each term comprises individual blocks of learning about a particular topic. So the Year 4 overview looks like the picture, and Autumn Block 2, for example, focuses on addition and subtraction.

You'll notice that we spend lots of time building strong number skills. These essential core skills lay a solid foundation for more complicated learning later on.

Sometimes we might be a little behind or ahead of the scheme schedule. That's fine; we deliberately build flexibility into our schemes to allow for these variations.

# Small steps



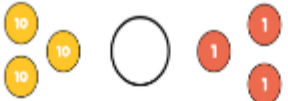
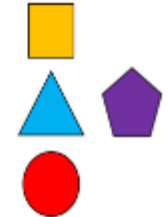
Each block of knowledge into a series of small learning steps. Together, these small steps cover all the curriculum content that your child needs to know.

Brain science tells us that your child will remember more by learning maths in small, related chunks. The best available research has been used to map out the crucial learning steps that will help your child to understand what they are learning clearly.

# Lessons

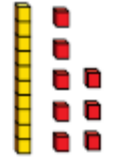
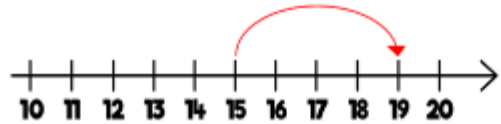

Our lessons are carefully structured to rehearse skills, introduce new concepts through small-step modelling, followed by independent or group work which applies those skills in creative and interesting ways.

**Flashback 4** Year 2 | Week 6 | Day 1

- 1) Work out  $49 - 30$
- 2) Complete the number bond  $20 + \square = 100$
- 3) Use  $<$ ,  $>$  or  $=$  to compare the counters.  

- 4) Which shape is below the triangle?  


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**Flashback 4** Year 2 | Week 6 | Day 2

- 1) Add together 37 and 6  

- 2) What is 4 more than 15?  

- 3) What could the missing digit be?  
 $37 > \_ 9$
- 4) How long is the crayon?  


White Rose Maths

# Helping your child with maths (it's more fun than you think!)

Many people think they “can’t do maths”, but with exciting new teaching approaches, we’re proving day by day that every child really can love and succeed in maths! What’s more, we want to make it as easy as possible for you to support your child’s learning, so here are some helpful tips from our fantastic team.

## **Try not to hurry through the curriculum.**

Remember that understanding each small step is the path to your child’s success: rushing ahead doesn’t work!

## **Is your child struggling with particular topics?**

Try looking instead at work on the same topics from earlier in the year or previous years. Doing this will help plug any learning gaps and make sure your child understands the topic more clearly.

## **Use our free parent workbooks**

These workbooks will help you to spot where your child where your child might be struggling. There is a workbook for every block at primary level, and the secondary workbooks will be on their way very soon!

## **Is your child finding maths easy?**

Why not have a go at some of our problem-solving activities or bar modelling problems? These are great exercises for stretching young minds and building new skills and insights!

# Where to go for extra help at home?



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