

Summer Scheme of Learning

Year 6

#MathsEveryoneCan

2020-21

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New for 2020/21

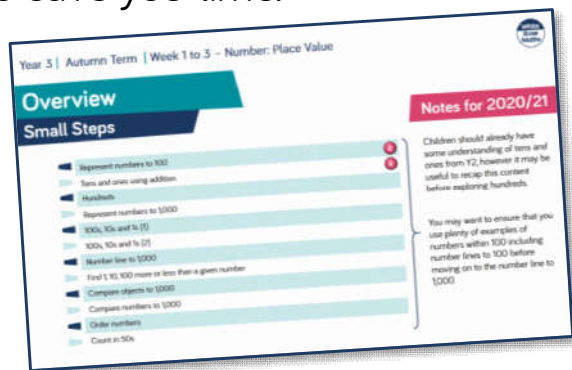
2020 will go down in history. The world has changed for all of us.

We want to do as much as we can to support children, teachers, parents and carers in these very uncertain times.

We have amended our schemes for 2020/21 to:

- ★ highlight key teaching points
- ★ recap essential content that children may have forgotten
- ★ flag any content that you might not have covered during the school closures period.

We hope these changes will add further value to the schemes and save you time.



Lesson-by-lesson overviews

We've always been reluctant to produce lesson-by-lesson overviews as every class is individual and has different needs. However, many of you have said that if blended learning becomes a key feature of school life next year, a weekly plan with linked content and videos could be really useful.

As always, we've listened! We've now produced a complete lesson-by-lesson overview for Y1 to Y9 that schools can use or adapt as they choose. Each lesson will be linked to a free-to-use home learning video, and for premium subscribers, a worksheet. This means that you can easily assign work to your class, whether they are working at home or in school.

Inevitably, this lesson-by-lesson structure won't suit everyone, but if it works for you, then please do make use of this resource as much as you wish.

Teaching for Mastery

These overviews are designed to support a mastery approach to teaching and learning and have been designed to support the aims and objectives of the new National Curriculum.

The overviews:

- have number at their heart. A large proportion of time is spent reinforcing number to build competency
- ensure teachers stay in the required key stage and support the ideal of depth before breadth.
- ensure students have the opportunity to stay together as they work through the schemes as a whole group
- provide plenty of opportunities to build reasoning and problem solving elements into the curriculum.

For more guidance on teaching for mastery, visit the NCETM website:

<https://www.ncetm.org.uk/resources/47230>

Concrete - Pictorial - Abstract

We believe that all children, when introduced to a new concept, should have the opportunity to build competency by taking this approach.

Concrete – children should have the opportunity to use concrete objects and manipulatives to help them understand what they are doing.

Pictorial – alongside this children should use pictorial representations. These representations can then be used to help reason and solve problems.

Abstract – both concrete and pictorial representations should support children's understanding of abstract methods.

Need some CPD to develop this approach? Visit www.whiterosemaths.com for find a course right for you.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Addition, Subtraction, Multiplication and Division				Number: Fractions					Geometry: Position and Direction
Spring	Number: Decimals		Number: Percentages		Number: Algebra		Measurement: Converting Units	Measurement: Perimeter, Area and Volume		Number: Ratio		Consolidation
Summer	Statistics		Geometry: Properties of shape			Consolidation and themed projects						

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Summer - Block 1

Statistics

Overview

Small Steps

Notes for 2020/21

- Read and interpret line graphs
- Draw line graphs
- Use line graphs to solve problems
- Circles
- Read and interpret pie charts
- Pie charts with percentages
- Draw pie charts
- The mean

Originally this had been planned in for the end of the Spring term. Due to SATs being cancelled and therefore time gained for year 6 teachers, this can now be covered in more detail at the start of the summer term.

There will be more opportunity to draw pie charts in the next block when children recap measuring and drawing angles.

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Summer - Block 2

Properties of Shape

Overview

Small Steps

Notes for 2020/21

- ▶ Measure with a protractor
- ▶ Draw lines and angles accurately R
- ▶ Introduce angles
- ▶ Angles on a straight line R
- ▶ Angles around a point R
- ▶ Calculate angles
- ▶ Vertically opposite angles
- ▶ Angles in a triangle
- ▶ Angles in a triangle – special cases
- ▶ Angles in a triangle – missing angles
- ▶ Angles in special quadrilaterals
- ▶ Angles in regular polygons
- ▶ Draw shapes accurately
- ▶ Draw nets of 3-D shapes

In this block children will build on learning from year 5 to look at properties of shape in detail, specifically angles.

There is time available after this block so it can span a longer period of time if needed.

Consider recapping the drawing of pie charts from the previous block when working with protractors.