Year 5

White Rose Maths

Welcome to our lesson by lesson overview for 2020-21. This has been designed to give schools a clear progression to follow in case a blended learning approach is needed.

We have taken into account potential lost learning during the lockdown period by adding in recap lessons. These are indicated with an (R)

🎥 Each lesson will link to a video tutorial produced by one of our maths specialists which can be used in a variety of ways:
- ✓ at home if classes, local areas or everyone goes into lockdown
- ✓ in small groups during intervention sessions
- ✓ with TAs or learning assistants, particularly with mixed age classes
- ✓ on tablets to promote independent learning.

All the videos are freely available and most of them are linked to a worksheet that will be available through the premium website. We will also make the non-voiced over PowerPoint version of the video available to use as a front of class teaching tool.

For those lessons that say 'activity', the activity will be explained through the video. You will notice that some lessons are repeated. This happens with some key concepts as children may need more time to embed their learning.

For example there are two lessons on 'Finding the difference' in year 1.

| Monday | Subtraction - finding the difference | NF-1 AS-2 |
| Tuesday | Subtraction - finding the difference | NF-1 AS-2 |

We have linked our lessons to the DFE ready to progress criteria to help you plan and see where to prioritise learning. You can find the full guidance document **here** which includes the meanings of each code.

Release dates – our videos and front of class PowerPoints will be released over the year in line with this progression. We recommend, if you are using this, to use the dates we have provide.

Year 5 – Autumn Term

White Rose Maths

Week	Day	Topic	
1 07/09/2020	Monday	1000s, 100s, 10s and 1s	**NPV-2** Ⓡ
	Tuesday	Numbers to 10,000	**NPV-2**
	Wednesday	Rounding to the nearest 10	**NPV-3** Ⓡ
	Thursday	Rounding to the nearest 100	**NPV-3** Ⓡ
	Friday	Rounding to 10, 100 and 1,000	**NPV-3**
2 14/09/2020	Monday	Numbers to 100,000	**NPV-2**
	Tuesday	Compare and order numbers to 100,000	**NPV-3**
	Wednesday	Round numbers within 100,000	**NPV-3**
	Thursday	Numbers to a million	**NPV-2**
	Friday	Counting in 10s, 100s, 1,000s, 10,000s and 100,000s	**NPV-2**
3 21/09/2020	Monday	Compare and order numbers to one million	**NPV-3**
	Tuesday	Round numbers to one million	**NPV-3**
	Wednesday	Negative numbers	**NPV-3**
	Thursday	Roman numerals	**NPV-3**
	Friday	Mini-assessment	
4 28/09/2020	Monday	Add two 4-digit numbers - one exchange	Ⓡ
	Tuesday	Add two 4-digit numbers - more than one exchange	Ⓡ
	Wednesday	Add whole numbers with more than 4 digits	
	Thursday	Subtract two 4-digit numbers - one exchange	Ⓡ
	Friday	Subtract two 4-digit numbers - more than one exchange	Ⓡ

Week	Day	Topic	
5 05/10/2020	Monday	Subtract whole numbers with more than 4-digits	
	Tuesday	Round to estimate and approximate	
	Wednesday	Inverse operations (addition and subtraction)	
	Thursday	Multi-step addition and subtraction problems	
	Friday	Mini-assessment	
6 12/10/2020	Monday	Interpret charts	(R)
	Tuesday	Comparison, sum and difference	(R)
	Wednesday	Introduce line graphs	**NPV-4** (R)
	Thursday	Read and interpret line graphs	**NPV-4**
	Friday	Draw line graphs	**NPV-4**
7 19/10/2020	Monday	Use line graphs to solve problems	**NPV-4**
	Tuesday	Read and interpret tables	
	Wednesday	Two-way tables	
	Thursday	Timetables	
	Friday	Mini-assessment	
8 02/11/2020	Monday	Multiples	**MD-2**
	Tuesday	Factors	**MD-2**
	Wednesday	Common factors	**MD-2**
	Thursday	Prime numbers activity	**MD-2**
	Friday	Prime numbers	**MD-2**
9 09/11/2020	Monday	Square numbers	**MD-2**
	Tuesday	Cube numbers	**MD-2**
	Wednesday	Multiply by 10	**MD-1** (R)
	Thursday	Multiply by 100	**MD-1** (R)
	Friday	Multiply by 10, 100 and 1,000	**MD-1**

Week	Day	Topic	
10 16/11/2020	Monday	Divide by 10	**MD-1** Ⓡ
	Tuesday	Divide by 100	**MD-1** Ⓡ
	Wednesday	Divide by 10, 100 and 1,000	**MD-1**
	Thursday	Multiples of 10, 100 and 1,000	**MD-1**
	Friday	Mini-assessment	
11 23/11/2020	Monday	Measure perimeter	
	Tuesday	Perimeter on a grid	Ⓡ
	Wednesday	Perimeter of rectangles	Ⓡ
	Thursday	Perimeter of rectilinear shapes	Ⓡ
	Friday	Calculate perimeter	
12 30/11/2020	Monday	Counting squares	**G-2** Ⓡ
	Tuesday	Area of rectangles	**G-2**
	Wednesday	Area of compound shapes	**G-2**
	Thursday	Area of irregular shapes	**G-2**
	Friday	Mini-assessment	
13 07/12/2020		Consolidation week. Use this week to recap and consolidate learning from this term. For additional challenge – check out our problems of the day.	
14 14/12/2020		Activity week. This week we will be providing some themed activities linking to the learning from this term.	

White Rose Maths

Year 5 – Spring Term

Lesson by lesson overview 2020/21

White Rose Maths

Week	Day	Topic	
1 04/01/2021	Monday	Multiply 2-digits by 1-digit	**MD-3** Ⓡ
	Tuesday	Multiply 3-digits by 1-digit	**MD-3** Ⓡ
	Wednesday	Multiply 4-digits by 1-digit	**MD-3**
	Thursday	Area model activity	**MD-3**
	Friday	Multiply 2-digits (area model)	**MD-3**
2 11/01/2021	Monday	Multiply 2-digits by 2-digits	**MD-3**
	Tuesday	Multiply 3-digits by 2-digits	**MD-3**
	Wednesday	Multiply 4-digits by 2-digits (basic practice)	**MD-3**
	Thursday	Multiply 4-digits by 2-digits	**MD-3**
	Friday	Divide 2-digits by 1-digit (1)	**MD-4** Ⓡ
3 18/01/2021	Monday	Divide 2-digits by 1-digit (2)	**MD-4** Ⓡ
	Tuesday	Divide 3-digits by 1-digit	**MD-4** Ⓡ
	Wednesday	Divide 4-digits by 1-digit	**MD-4**
	Thursday	Divide with remainders	**MD-4**
	Friday	Mini-assessment	
4 25/01/2021	Monday	What is a fraction?	**F-2** Ⓡ
	Tuesday	Equivalent fractions	**F-2** Ⓡ
	Wednesday	Equivalent fractions	**F-2**
	Thursday	Fractions greater than 1	**F-2** Ⓡ
	Friday	Improper fractions to mixed numbers	**F-2**

Week	Day	Topic	
5 01/02/2021	Monday	Mixed numbers to improper fractions	**F-2**
	Tuesday	Number sequences	**F-2**
	Wednesday	Compare fractions less than 1	**F-2**
	Thursday	Order fractions less than 1	**F-2**
	Friday	Compare fractions greater than 1	**F-2**
6 08/02/2021	Monday	Order fractions greater than 1	**F-2**
	Tuesday	Add and subtract fractions	
	Wednesday	Add fractions within 1 activity	
	Thursday	Add fractions within 1	
	Friday	Add 3 or more fractions	
7 22/02/2021	Monday	Add fractions	
	Tuesday	Add mixed numbers activity	
	Wednesday	Add mixed numbers	
	Thursday	Subtract fractions	
	Friday	Subtract mixed numbers	
8 01/03/2021	Monday	Subtraction - breaking the whole	
	Tuesday	Subtract 2 mixed numbers	
	Wednesday	Multiply unit fractions by an integer	
	Thursday	Multiply non-unit fractions by an integer	
	Friday	Multiply mixed numbers by integers	
9 08/03/2021	Monday	Calculate fractions of a quantity	**F-1** (R)
	Tuesday	Fraction of an amount	**F-1**
	Wednesday	Using fractions as operators	**F-1**
	Thursday	Fraction problem solving	**F-1**
	Friday	Mini-assessment	

Week	Day	Topic	
10 15/03/2021	Monday	Decimals up to 2 d.p.	**NPV-2**
	Tuesday	Decimals as fractions (1)	**F-3**
	Wednesday	Decimals as fractions (2)	**F-3**
	Thursday	Understand thousandths	**NPV-1**
	Friday	Thousandths as decimals	**NPV-1**
11 22/03/2021	Monday	Rounding decimals	**NPV-3**
	Tuesday	Order and compare decimals	**NPV-3**
	Wednesday	Understand percentages	
	Thursday	Percentages as fractions and decimals	
	Friday	Equivalent FDP	**F-3**
12 29/03/2021		Activity week. This week we will be providing some themed activities linking to the learning from this term.	

Year 5 – Summer Term

Lesson by lesson overview 2020/21

Week	Day	Topic	
1 12/04/2021		Consolidate decimals from the Spring term	
	Friday	Mini-assessment	
2 19/04/2021	Monday	Adding decimals within 1	
	Tuesday	Subtracting decimals within 1	
	Wednesday	Complements to 1	
	Thursday	Adding decimals - crossing the whole	
	Friday	Adding decimals with the same number of decimal places	
3 26/04/2021	Monday	Subtracting decimals with the same number of decimal places	
	Tuesday	Adding and subtracting decimals with the same number of decimal places problem solving	
	Wednesday	Adding decimals with a different number of decimal places	
	Thursday	Subtracting decimals with a different number of decimal places	
	Friday	Adding and subtracting decimals with a different number of decimal places problem solving	
4 03/05/2021	Monday	Adding and subtracting wholes and decimals	
	Tuesday	Decimal sequences	
	Wednesday	Multiplying decimals by 10, 100 and 1,000	**MD-1**
	Thursday	Dividing decimals by 10, 100 and 1,000	**MD-1**
	Friday	Mini-assessment	

Week	Day	Topic		
5 10/05/2021	Monday	Identify angles	**G-1**	Ⓡ
	Tuesday	Compare and order angles	**G-1**	Ⓡ
	Wednesday	Measuring angles in degrees	**G-1**	
	Thursday	Measuring with a protractor (1)	**G-1**	
	Friday	Measuring with a protractor (2)	**G-1**	
6 17/05/2021	Monday	Drawing lines and angles accurately activity	**G-1**	
	Tuesday	Drawing lines and angles accurately	**G-1**	
	Wednesday	Calculating angles on a straight line	**G-1**	
	Thursday	Calculating angles around a point	**G-1**	
	Friday	Triangles		Ⓡ
7 24/05/2021	Monday	Quadrilaterals		Ⓡ
	Tuesday	Calculating lengths and angles in shapes		
	Wednesday	Regular and irregular polygons		
	Thursday	Reasoning about 3-D shapes		
	Friday	Mini-assessment		
8 07/06/2021	Monday	Describe position		Ⓡ
	Tuesday	Draw on a grid		Ⓡ
	Wednesday	Position in the first quadrant		
	Thursday	Translation		
	Friday	Translation with coordinates		
9 14/06/2021	Monday	Lines of symmetry		Ⓡ
	Tuesday	Complete a symmetric figure		Ⓡ
	Wednesday	Reflection		
	Thursday	Reflection with coordinates		
	Friday	Mini-assessment		

Week	Day	Topic	
10 21/06/2021	Monday	Kilometres	**NPV-6** R
	Tuesday	Kilograms and kilometres	**NPV-6**
	Wednesday	Millimetres and millilitres	**NPV-6**
	Thursday	Metric units activity	**NPV-6**
	Friday	Metric units	**NPV-6**
11 28/06/2021	Monday	Imperial units activity	**NPV-6**
	Tuesday	Imperial units	**NPV-6**
	Wednesday	Converting units of time	**NPV-6**
	Thursday	Timetables	
	Friday	Mini-assessment	
12 05/07/2021	Monday	What is volume?	
	Tuesday	Compare volume	
	Wednesday	Estimate volume	
	Thursday	Estimate capacity	
	Friday	Mini-assessment	
13 12/07/2021		Activity week. This week we will be providing some themed activities linking to the learning from this term.	