Year 5/6

White Rose Maths

Welcome to our mixed age 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. The overviews match learning in both year groups and look to match lessons where similar concepts are being taught.

In Year 5/6 we have followed the order of the Year 5/6 mixed age scheme for academic year 2020/21. This follows the order of the single age Y6 scheme closely to ensure coverage of concepts before assessments in the summer term.

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

🎥 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 if splitting the class into single age groups
✓ 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.

Release dates – our videos and front of class PowerPoints will be released over the year in line with the single-age progression. Due to this, there may be points that the videos will not be available for the mixed-age progression due to the change in order. However, all worksheets will be available for premium subscribers.
If a video is available for one year group but not the other, this will be indicated on the mixed age progression in red by stating which year group videos to access e.g. Use Y6
If an extra step is added in that is extra to the single age steps, this is indicated on the mixed age progression in purple by stating which year group worksheets to access. Due to the change in order, videos might not be available but worksheets will be e.g. (Y5)

For those lessons that say 'activity', the activity will be explained through the video.
Some lessons are consolidation lessons. These are in bold blue font. Consolidation lessons do not have videos or worksheets but give teachers an extra day to reinforce understanding.

We have linked our lessons to the DFE ready to progress criteria to help you plan and see where to prioritise learning. All the codes that link the lessons are available on our single age lesson by lesson overviews.

Year 5/6 – Autumn Term

White Rose Maths

Week	Day	Y5 Topic	Y6 Topic	
1 07/09/20	Mon	Numbers to 10,000	Numbers to 10,000	R
	Tue	Numbers to 100,000	Numbers to 100,000	R
	Wed	Numbers to a million	Numbers to a million	R
	Thu	Compare and order numbers to 100,000	Numbers to 10 million	
	Fri	Compare and order numbers to one million	Compare and order any number	
2 14/09/20	Mon	Rounding to 10, 100 and 1,000	Round numbers to 10, 100 and 1,000	R
	Tue	Round numbers within 100,000	Round numbers within 100,000 (Use Y5)	R
	Wed	Round numbers to one million	Round any number	
	Thu	Negative numbers	Negative numbers (in context)	
	Fri	Counting in 10s, 100s, 1,000s, 10,000s and 100,000s	Negative numbers (more abstract)	
3 21/09/20	Mon	Roman numerals	Roman numerals (Use Y5)	R
	Tue	Mini-assessment	Mini-assessment	
	Wed	Add two 4-digit numbers - more than one exchange	Add two 4-digit numbers - more than one exchange (Use Y5)	R
	Thu	Add whole numbers with more than 4 digits	Add whole numbers with more than 4 digits	R
	Fri	Subtract two 4-digit numbers – more than one exchange	Subtract two 4-digit numbers – more than one exchange (Use Y5)	R
4 28/09/20	Mon	Subtract whole numbers with more than 4 digits	Subtract whole numbers with more than 4 digits	R
	Tue	Inverse operations (addition and subtraction)	Inverse operations (addition and subtraction)	R
	Wed	Multi-step addition and subtraction problems	Multi-step addition and subtraction problems	R
	Thu	Round to estimate and approximate	Add and subtract integers	
	Fri	Multiply 3-digits by 1-digit (Y4)	Multiply 3-digits by 1-digit (Y4)	R

Year 5/6 – Autumn Term

Lesson by lesson overview 2020/21

White Rose Maths
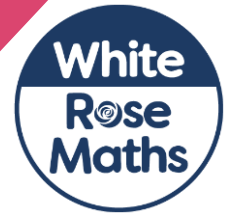
Week	Day	Y5 Topic	Y6 Topic	
5 05/10/20	Mon	Multiply 4-digits by 1-digit (Use Y6)	Multiply 4-digits by 1-digit	Ⓡ
	Tue	Multiply 2-digits (area model) (Use Y6)	Multiply 2-digits (area model)	Ⓡ
	Wed	Multiply 2-digits by 2-digits (Use Y6)	Multiply 2-digits by 2-digits	Ⓡ
	Thu	Multiply 3-digits by 2-digits (Use Y6)	Multiply 3-digits by 2-digits	Ⓡ
	Fri	Multiply 4-digits by 2-digits (Use Y6)	Multiply up to a 4-digit number by a 2-digit number	
6 12/10/20	Mon	Divide 2-digits by 1-digit (1) Ⓡ	Divide 4-digits by 1-digit	Ⓡ
	Tue	Divide 2-digits by 1-digit (2) Ⓡ	Divide with remainders	Ⓡ
	Wed	Divide 3-digits by 1-digit Ⓡ	Short division	
	Thu	Divide 4-digits by 1-digit (Use Y6)	Division using factors	
	Fri	Divide with remainders (Use Y6)	Long division (1)	
7 19/10/20	Mon	Multiply by 10, 100 and 1,000	Long division (2)	
	Tue	Divide by 10, 100 and 1,000	Long division (3)	
	Wed	Multiples of 10, 100 and 1,000	Long division (4)	
	Thu	Factors	Factors	Ⓡ
	Fri	Common factors	Common factors	
8 02/11/20	Mon	Multiples	Common multiples	
	Tue	Prime numbers activity	Mental calculations and estimation	
	Wed	Prime numbers	Primes to 100	
	Thu	Square numbers	Squares and cubes	
	Fri	Cube numbers	Order of operations	
9 09/11/20	Mon	Consolidation of four operations	Reason from known facts	
	Tue	Mini- assessment	Mini-assessment	
	Wed	Equivalent fractions Ⓡ	Equivalent fractions	Ⓡ
	Thu	Equivalent fractions	Simplify fractions	
	Fri	Improper fractions to mixed numbers	Improper fractions to mixed numbers	Ⓡ

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Lesson by lesson overview 2020/21

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Week	Day	Y5 Topic	Y6 Topic
10 16/11/20	Mon	Mixed numbers to improper fractions	Mixed numbers to improper fractions ⓡ
	Tue	Number sequences	Fractions on a number line
	Wed	Compare fractions less than 1	Compare and order (denominator)
	Thu	Order fractions less than 1	Compare and order (numerator)
	Fri	Compare fractions greater than 1	Compare fractions greater than 1 (Y5) ⓡ
11 23/11/20	Mon	Order fractions greater than 1	Order fractions greater than 1 (Y5) ⓡ
	Tue	Add and subtract fractions	Add and subtract fractions (1)
	Wed	Add fractions within 1	Add and subtract fractions activity
	Thu	Add 3 or more fractions	Add and subtract fractions (2)
	Fri	Add mixed numbers	Add mixed numbers ⓡ
12 30/11/20	Mon	Add fractions	Add fractions
	Tue	Subtract fractions	Subtract fractions (Y5) ⓡ
	Wed	Subtract mixed numbers	Subtract mixed numbers ⓡ
	Thu	Subtraction - breaking the whole	Subtract fractions
	Fri	Subtract 2 mixed numbers	Mixed addition and subtraction
13 07/12/20	Mon	Multiply unit fractions by an integer	Multiply fractions by integers
	Tue	Multiply non-unit fractions by an integer	Multiply fractions by fractions
	Wed	Multiply mixed numbers by integers	Divide fractions by integers (1)
	Thu	Calculate fractions of a quantity ⓡ	Divide fractions by integers (2)
	Fri	Fraction of an amount	Fraction of an amount
14 14/12/20	Mon	Using fractions as operators	Fraction of an amount - find the whole
	Tue	Fraction problem solving	Four rules with fractions
	Wed	Mini-assessment	Mini-assessment
	Thu	Activity days. We will be providing some themed activities linking to the learning from this term.	
	Fri		

Year 5/6 – Spring Term

Lesson by lesson overview 2020/21

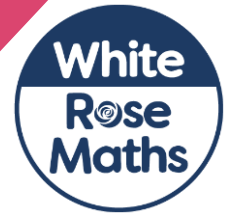| Week	Day	Y5 Topic	Y6 Topic	
1 04/01/21	Mon	Decimals up to 2 d.p.	Decimals up to 2 d.p.	Ⓡ
	Tue	Decimals as fractions (1)	Decimals as fractions	
	Wed	Decimals as fractions (2)	Decimals as fractions (2)	Ⓡ
	Thu	Understand thousandths	Understand Thousandths	Ⓡ
	Fri	Thousandths as decimals	Three decimal places	
2 11/01/21	Mon	Rounding decimals	Rounding decimals	Ⓡ
	Tue	Order and compare decimals	Fractions to decimals (1)	
	Wed	Understand percentages	Fractions to decimals (2)	
	Thu	Fractions to percentages (Use Y6)	Fractions to percentages	
	Fri	Percentages as fractions and decimals	Percentages as fraction & decimals	Ⓡ
3 18/01/21	Mon	Equivalent FDP	Equivalent FDP	
	Tue	Adding decimals within 1	Order FDP	
	Wed	Subtracting decimals within 1	Percentage of an amount (1)	
	Thu	Compliments to 1	Percentage of an amount (2)	
	Fri	Add decimals – crossing the whole	Percentage (missing value)	
4 25/01/21	Mon	Add decimals with same number of decimal places	Add decimals with same number of decimal places	Ⓡ
	Tue	Subtract decimals with same number of decimal places	Subtract decimals with same number of decimal places	Ⓡ
	Wed	Add decimals with a different number of decimal places	Add decimals with a different number of decimal places	Ⓡ
	Thu	Subtract decimals with different number of decimal places	Subtract decimals with different number of decimal places	Ⓡ
	Fri	Add and subtract wholes as decimals	Add and subtract wholes as decimals	Ⓡ

Year 5/6 – Spring Term

Lesson by lesson overview 2020/21

Week	Day	Y5 Topic	Y6 Topic
5 01/02/21	Mon	Multiply decimals by 10,100 and 1,000	Multiply by 10, 100 and 1,000
	Tue	Divide decimals by 10, 100 and 1,000	Divide by 10, 100 and 1,000
	Wed	Decimal sequences	Multiply decimals by integers
	Thu	Consolidations of FDP	Divide decimals by integers
	Fri	Mini-assessment	Division to solve problems
6 08/02/21	Mon	Kilometres (Use Y4) Ⓡ	Metric measures
	Tue	Kilograms and kilometres	Convert metric measures
	Wed	Millimetres and millilitres	Calculate with metric measures
	Thu	Metric units	Miles and kilometres
	Fri	Imperial units	Imperial measures
7 22/02/21	Mon	Converting units of time	Find a rule – one step
	Tue	Timetables	Find a rule – two step
	Wed	Consolidation of multiplication and division	Forming expressions
	Thu		Substitution
	Fri		Formulae
8 01/03/21	Mon	Consolidation of Fractions, Decimals and Percentages	Forming equations
	Tue		Solve simple one- step equations
	Wed		Solve two-step equations
	Thu		Find pairs of values (1)
	Fri		Find pairs of values (2)

Year 5/6 – Spring Term

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Week	Day	Y5 Topic	Y6 Topic
9 08/03/21	Mon	Measure perimeter	Area and perimeter
	Tue	Perimeter on a grid ®	Shapes – same area
	Wed	Perimeter of rectangles ®	Area of a triangle (1)
	Thu	Perimeter of rectilinear shapes ®	Area of a triangle (2)
	Fri	Calculate perimeter	Area of a triangle (3)
10 15/03/21	Mon	Counting squares ®	Area of a parallelogram
	Tue	Area of rectangles	Using ratio language
	Wed	Area of compound shapes	Ratio and fractions
	Thu	Area of irregular shapes	Introducing the ratio symbol
	Fri	Mini-assessment	Calculating ratio activity
11 22/03/21	Mon	Interpret charts ®	Calculating ratio
	Tue	Comparison, sum and difference ®	Using scale factors
	Wed	Read and interpret tables	Calculating scale factors
	Thu	Two way tables	Ratio and proportion problems
	Fri	Timetables	Ratio and proportion problems (2)
12 29/03/21	Mon	Introduce line graphs ®	Line graphs
	Tue	Read and interpret line graphs	Circles
	Wed	Draw line graphs	Read and interpret pie charts
	Thu	Use line graphs to solve problems	Draw pie charts
	Fri	Mini-assessment	The mean