Autumn Scheme of Learning

Year 6

#MathsEveryoneCan

2020-21

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	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		Statistics
Summer	Geometry: Properties of Shape			Consolidation or SATs preparation		Consolidation, investigations and preparations for KS3						

Overview

Small Steps

Notes for 2020/21

Numbers to 10,000	®
Numbers to 100,000	®
Numbers to a million	®
Numbers to ten million	
Compare and order any number	
Round numbers to 10, 100 and 1,000	®
Round any number	
Negative numbers	

Many children may struggle to work immediately with numbers to 10,000,000 so we are suggesting that this might build up from smaller numbers.

It's vital that children have that understanding/recap of place value to ensure they are going to be successful with later number work.

Overview

Small Steps

Notes for 2020/21

Add whole numbers with more than 4 digits — R

Subtract whole numbers with more than 4 digits — R

Inverse operations (addition and subtraction) — R

Multi-step addition and subtraction problems — R

Add and subtract integers

Multiply 4-digits by 1-digit — R

Multiply 2-digits (area model) — R

Multiply 2-digits by 2-digits — R

Multiply 3-digits by 2-digits — R

Multiply up to a 4-digit number by 2-digit number

Divide 4-digits by 1-digit — R

Divide with remainders — R

Short division

Division using factors

Year 6 assumes a lot of prior understanding of four operations. A deep understanding of these concepts are essential to help prepare children for secondary education and beyond.

Some children may not have had much practice in the last few months so we've included extended blocks and plenty of recap.

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Overview

Small Steps

- Long division (1)
- Long division (2)
- Long division (3)
- Long division (4)
- Factors   **R**
- Common factors
- Common multiples
- Primes to 100
- Squares and cubes
- Order of operations
- Mental calculations and estimation
- Reason from known facts

Notes for 2020/21

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Some children may not have had much practice in the last few months so we've included extended blocks and plenty of recap.

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Overview

Small Steps

Notes for 2020/21

- Equivalent fractions ®
- Simplify fractions
- Improper fractions to mixed numbers ®
- Mixed numbers to improper fractions ®
- Fractions on a number line
- Compare and order (denominator)
- Compare and order (numerator)
- Add and subtract fractions (1)
- Add and subtract fractions (2)
- Add mixed numbers ®
- Add fractions
- Subtract mixed numbers ®
- Subtract fractions

Many children may have missed the block of learning from Y5 on fractions therefore we are suggesting recapping this.

Spend time ensuring children can add and subtract proper fractions, before moving onto mixed numbers.

These skills require understanding of equivalent fractions.

Overview

Small Steps

- Mixed addition and subtraction
- Multiply fractions by integers
- Multiply fractions by fractions
- Divide fractions by integers (1)
- Divide fractions by integers (2)
- Four rules with fractions
- Fraction of an amount
- Fraction of an amount – find the whole

Notes for 2020/21

Many children may have missed the block of learning from Y5 on fractions therefore we are suggesting recapping this.

Spend time ensuring children can add and subtract proper fractions, before moving onto mixed numbers.

These skills require understanding of equivalent fractions.

Overview

Small Steps

Notes for 2020/21

- The first quadrant
- Four quadrants
- Translations
- Reflections

Position and direction was probably missed in the summer of Y5 so treat this topic as brand new learning.