

Year 6 Maths – Spring 1

Counting

Count on/back from a given number in steps of 10/100/1000/10000 to 1,000,000 and beyond

Count on/back in whole numbers, fraction and decimal sequences through zero to include negative numbers (e.g. 2.5 or $1\frac{1}{4}$)

Number and Place value

Read, write, partition, order and compare decimal numbers up to 3dp

Order and compare numbers including fraction and decimals

Multiply and divide by 10,100 and 1000 giving answers with up to 3dp

Fractions, decimals and percentages

Multiply fractions by a whole number and another fraction

Divide fractions by a whole number

Solve problems involving fractions and all 4 operations

Multiply and divide decimals by a single digit number

Find 1% and use to find other multiples of 1%

Find equivalent fractions, decimals and percentages

Meeting Expectations

- Perform mental calculations, including with mixed operations and large numbers
- Multiply simple pairs of proper fractions
- Divide proper fractions by whole numbers
- Compare and order fractions, decimals and percentages
- Find a percentage of an amount by finding 1% first

Hook for learning:

Learning Challenge links to maps topic
Science links to body topic

Learning Challenge/Science links

Can you work out the time in different countries around the world using time zone information?

Can you describe the heart rate in the human body compared to other animals?

Calculation in Arithmetic skills time

Multiply using long multiplication method 4digit by 2 digit

Divide 4 digit by 1 digit and 4 digit by 2 digit using short/long division method including those with remainders

Multiply a simple decimal by a 2 digit number

Find a fraction or % of an amount

Non-negotiables:

* multiply single digit numbers with 2 dp by whole numbers

* Recall and use equivalences between simple fractions, decimals and percentages

* identify the value of each digit up to 3 dp and multiply and divide by 10,100 and 1000

Measurement Linked to LC topic – Where do maps take us?

Use, read, write and convert between units of measurement

Use a scale eg, 1cm = 1km to work out distances on a map

Geometry Linked to LC topic – Where do maps take us?

Use 8 compass points to give directions

Read grid references on Ordnance Survey maps

Statistics Linked to LC topic – Where do maps take us?

Compare populations in different countries and show in graph form

Exceeding Expectations

Compare, order and convert between fractions, decimals and percentages in contexts related to science, history or geography learning

Maths –Weekly

Week 1 (3 days): Multiplication of fractions

Can multiply fractions by a whole number or another fraction

Arithmetic

multiplying and dividing using known facts

Week 2: Division of fractions and problems with fractions

Can divide fractions by a whole number

Solve problems involving all four operations with fractions

Solve problems involving a fraction of an amount

Arithmetic

50%, 25% and 10% of amounts

Week 3: decimals

Recognise the value of each digit in a decimal number

Multiply and divide decimals by 10,100 and 1000

Arithmetic

Long multiplication and long division

Week 4: multiply and divide decimals

Multiply and divide decimals by single digit numbers

Division to solve problems

Arithmetic

Dependent on assessment data

Week 5: decimals and fractions

Convert between fractions and decimals

Arithmetic

Dependent on assessment data

Week 6: percentages and FDP

Develop a deeper understanding of percentages as parts of 100

Equivalent and order FDP

Arithmetic

Dependent on assessment data

Week 7: percentages

Understand a range of methods to work out percentages of amounts

Find 1% and multiples of 1%

Arithmetic

Dependent on assessment data