

Year 6 Maths – Spring 2

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

Find 1% and use to find other multiples of 1%
Solve missing number percentage problems
Convert between units of measurement including fractions and decimals

Meeting Expectations

- Perform mental calculations, including with mixed operations and large numbers
- Find a percentage of an amount by finding 1% first
- Find the area and perimeter of a range of shapes
- Use a protractor accurately
- Convert between metric units of measurement

Hook for learning:

History links to Vikings topic
Science links to electricity topic
Separate days linked to certain topics
Debt Awareness

Learning Challenge/Science links

Can you calculate the average number of light bulbs in a house? Can you compare the answer for the mean, mode and median?
Can you find out which batteries are the best value for money?
Can you compare the dimensions of a Viking longboat with that of a modern ship?

Calculation in Arithmetic skills time

Multiply a simple decimal by a 2 digit number
Find a fraction or % of an amount
Use equivalent FDP
Solve calculations involving fractions and all four operations

Measurement

Use, read, write and convert between units of metric measurement
Convert between miles and kilometres
Convert between imperial units of measurement

Geometry

Find the area and perimeter of a range of shapes including the area of triangles and parallelograms
Find the volume of cuboids
Draw shapes accurately using a protractor
Understand technical vocabulary about a circle
Use a protractor accurately to measure angles

Statistics

Read, draw and interpret line graphs
Read and interpret pie charts
Find the mean of a set of data

Exceeding Expectations

Solve problems involving units of measurement linked to other areas of the curriculum

Maths –Weekly

Week 1: Percentages

Percentage of an amount and missing values

Metric measures

Arithmetic

Multiplying and dividing with decimals

Week 2: Measures

Convert and calculate with metric measures

Miles and kilometres and imperial measures

Arithmetic

50%, 25% and 10% of amounts

Week 3: Assessment week, ratio

Using and calculating scale factors

Draw shapes accurately

Arithmetic

Calculating with fractions

Week 4: Area and perimeter

Area and perimeter

Area of a triangle and parallelogram

volume

Arithmetic

Dependent on assessment data

Week 5: Statistics

Read and interpret line graphs

Circles

Read and interpret pie charts

The mean

Arithmetic

Dependent on assessment data