

Year 6 Maths – Summer 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

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
- Read and interpret line graphs and pie charts
- Find the mean of a set of data
- Describe the ratio between 2 sets
- Follow a sequence with 1 or 2 steps

Hook for learning:

Geography links to Rivers topic
Science links to Classification topic

Learning Challenge/Science links

Can you calculate the mean average rainfall from a set of data?
Can you compare rivers in the UK and around the world?
Can you investigate the maths in the spiral of a snail's shell? Fibonacci numbers in nature

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

Geometry

Understand technical vocabulary about a circle
Enlarge or reduce shapes by a scale factor

Ratio

Solve problems involving scaling up or down
Use the language of ratio to describe a relationship

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: Ratio

Using and calculating scale factors

Finding and calculating ratios

Solving problems involving ratios

Arithmetic

Calculating with fractions, roman numerals

Week 2: Statistics and algebra

Read and interpret line graphs and pie charts

The mean

Finding rules with one or two steps

Finding pairs of values

Arithmetic

Using known facts, BIDMAS

Week 3:

Revision of reasoning topics as needed using Testbase

Arithmetic

Calculating with fractions, decimals and percentages

Week 4: Assessment week

Week 5 and 6: Cross-curricular Maths

Fibonacci numbers in Nature

Timelines in History

Length of Rivers around the world

Mean rainfall

Arithmetic