**Year 6 Maths Programme**

**Term 1a 2017-2018**

**21st August - 28th August**

**Place Value:**

Numbers to ten million.

Compare and order any number.

Round any numbers to the nearest 100, 1000 and 10,000.

Negative numbers.

Problem Solving and Reasoning.

**4th September**

**Four Operations: Addition and Subtraction.**

Add and subtract whole numbers.

Add and Subtract to 2 decimal places.

Add and Subtract in the context of money.

Mental calculations, estimation and Inverse.

Order of operations.

Problem Solving,

Reasoning from known facts.

**11th September**

**Four Operations: Multiplication and Division**

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

Short division.

Division using factors.

**18th September – 25th September**

**Four Operations: Multiplication and Division**

Interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context.

Identify common factors, common multiples and prime, square and cubed numbers.

Order of operations.

Mental calculations, estimation and Inverse.

Reasoning from known facts.

Long division.

**2nd October – 9th October**

**Fractions**

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.

Fractions on a number line.

Compare and order fractions by the numerator/denominator.

Add and subtract fractions.

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Mixed addition and subtraction of fractions problems.

Multiply fractions by whole number.

Multiply fractions by fraction.

**Year 6 Science Programme**

**Term 1a 2017-2018**

**All Living Things**

**21st August**

**Classification**

To give reasons for classifying plants and animals based on specific characteristics, similarities and differences.

**28th August**

**Linnaean System**

To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals by finding out about the Linnaean System of classification.

**4th September**

**Curious Creatures**

To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals by identifying the characteristics of mammals, birds, insects, reptiles, amphibians, fish, arachnids, annelids, crustaceans, echinoderms and molluscs.

**11th September**

**Microorganisms**

To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals by exploring helpful and harmful micro-organisms.

**18th September** - **25th September**

**Field Guide**

To describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals by grouping organisms found in the local habitat.

**2nd October** - **9th October**

**Assessment/Review**

Year 6 Topic Programme

Term 1a 2017-2018

**Geography: Save Our Environment**

**21st August**

**Location and Climate**

Locate the earth’s major tropical rainforests.

Explain the key aspects of a rainforest climate.

**28th August**

**Layers of the Rainforest**

Identify the layers of the rainforest and explore their purpose in the ecosystem.

**4th September**

**Deforestation**

Understand the important role biodiversity plays on our planet.

Raise competing points of view about deforestation and determine own position supported by evidence.

**11th September** - **18th September**

**Endangered Animals**

Suggest explanations for the ways in which some animal species are endangered.

Propose ways of protecting endangered animals/reducing global warming.

**25th September**

**Exploring Other Cultures**

Compare one ecosystem (tropical rainforest) with a contrasting one (savannah).

Use empathy to understand the lives of people very different from themselves.

Write a report of their own findings, using appropriate geographic language, explaining the rainforest’s importance, its destruction and how it can be saved.

**2nd October** - **9th October**

**Assessment and Review**

**16th October**

**Half-term**