Natural Disasters

Year 6

Autumn Term 2020

Mathematics

Decimals and Percentages:
Associate a fraction with division and calculate decimal fraction equivalents
Recall and use equivalences between simple fractions, decimals and percentages
Multiply one-digit numbers with up to 2 decimal places by whole numbers
Use written division methods in cases where the answer has up to 2 decimal places
Solve problems involving the calculation of percentages and the use of percentages for comparison

Converting Measures:
Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places
Convert between miles and kilometres (5 miles = 8Km or 1 mile = 1.6 km)

Shape:
Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.
Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
Recognise, describe and build simple 3-D shapes, including making nets

Perimeter, Area and Volume:
Recognise that shapes with the same areas can have different perimeters and vice versa
Calculate the area of parallelograms and triangles
Recognise when it is possible to use formulae for area and volume of shapes.
Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units.

Ratio and Proportion
Solve problems involving ratio relationships
Solve problems involving similar shapes where the scale factor is known or can be found
Solve problems involving unequal sharing and grouping

Statistics:
Interpret and construct pie charts and line graphs to solve problems
To calculate and interpret the mean as an average

Geography: Place Knowledge

Study of human and physical geography of a region in a European country (Alps)
Confidently identify significant places and environments
Identify and describe where places are around the world
Compare and contrast areas within other European countries (Not UK)

English

Narrative: Running Wild (Contrasting setting), Pompeii (Historical)
Setting Description – The Impossible (First Person), Character Description (Writing as disaster) Poetry –Desiderata Non-Fiction: Letter of complaint, Biography (Vivaldi –Four seasons), Balanced Argument – should people live on a plate boundary?
Grammar: Revision of autumn units, expanded noun phrases, semi-colon, colon, dash, hyphens, ellipses
Reading: Inference, Retrieval and Vocabulary, Prediction, Summarise, Explain skills

RSHE

Keeping Myself Safe

Rights and Responsibilities

Art

Painting
- Create shades and tints using black and white
- Choose appropriate paint, paper and implements to adapt and extend work
- Carry out preliminary studies, test media and materials and mix appropriate colours
- Work from a variety of sources inc. those researched independently
- Show an awareness of how paintings are created (composition)

Printing
- Describe varied techniques
- Be familiar with layering prints
- Be confident with printing on paper and fabric
- Alter and modify work
- Work relatively independently

National Artist: Banksy

P.E.

Tag Rugby

I can run forward with the ball and pass backwards to a player once tagged.

I am beginning to evaluate my own performance and the performance of others.

My Personal Best:
Respect
Co-operation
Reflection
Courage
Gratitude
Problem-solving

Religious Education

Why do Hindus want to be good? (Karma/dharma/samsara/moksha)

What do Christians believe Jesus did to 'save' people? (Salvation)

History: Knowledge of Key Events

Find out about beliefs, behaviour and characteristics of people, recognising that not everyone shares the same views and feelings.
Compare beliefs and behaviour with another time studied.
Understand continuity and change.
Write another explanation of a past event in terms of cause and effect using evidence to support and illustrate their explanation.
Know key dates, characters and events of time studied.

Design Technology - Construction

Use bradawl to mark hole positions.
Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms.
Choose materials based on their functional properties and aesthetic qualities.
Apply their understanding of how to strengthen, stiffen more complex structures.
Understand and use mechanical systems in their products eg gears, pulleys, cams, levers and linkages.

Science (Evolution/Living Things)

Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago .
Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution
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
Give reasons for classifying plants and animals based on specific characteristics.

Computing – Coding and Digital Literacy

Use a random function in my code for purposeful effect.
Demonstrate strategies to enable me to analyse and evaluate the validity of 'facts' and I can explain why using these strategies are important.
Describe ways in which some online content targets people to gain money or information illegally; I can describe strategies to help me identify such content (e.g. scams, phishing).
Collaborate meaningfully using networked technologies for example within a shared document or shared workspace

Music

Simple composition and formal note recording

Improvise and compose music

Discuss dimensions of music