

## COMPUTING

To design, write and debug a program with a specific goal.

## GEOGRAPHY AUTUMN I VOLCANOES

Why do volcanoes happen? Where do they occur? To understand how tectonic plates work. Know the different layers of the earth. How volcanoes are formed? To understand the meaning of active, dormant and extinct volcanoes. To understand the difference between magma and lava.

### KEY VOCAB:

Active, ash cloud, central vent, crater, dormant, erupt, extinct, magma, mudflow, natural hazard.

## GEOGRAPHY AUTUMN II

### EARTHQUAKES

What causes earthquakes? How do tectonic plates move? What happens when they collide? How do they affect the landscape and people's lives? How is the strength of an earthquake measured and with what equipment?

### KEY VOCAB:

Aftershock, earthquake, natural hazard, pressure, shake, tsunami, wave, epicentre, fault, fault line, focus, plate, plate boundary, Richter scale, ring of fire, seismograph, seismometer, avalanche, damage, destruction, disaster, emergency, flooding, landslide, short term, long term, aid, evacuate, recover, relief, search and rescue team, shelter, shelterbox.

## ART

### IMPRESSIONISM

Understand colour, composition and technique of Monet and apply to own painting to create sketch books to record their observations and use them to review and revisit ideas, to improve their mastery of art and design techniques,

### D&T

### MOVING PARTS

To develop children's understanding of control through investigating simple pneumatic systems and designing and making a model of a monster that has moving parts controlled by pneumatics.

### SPANISH *This is taught by a Languages specialist teacher.*

Year 3 will be learning: greetings and introducing myself, counting to 10 and saying my age, colours and talking about where Spanish is spoken in the world.

## ENGLISH

**Writing** – Pupils will further develop skills in spelling, punctuation, grammar and speaking and listening, according to individual ability – developing writing accuracy, pace and detail.

**Reading** – Pupils read a variety of texts in English lessons, which lend themselves to different genres of Fiction and Non-Fiction writing. The Autumn term will be primarily based around Non-Chronological reports and Explanation texts

### Class Reading –

'Charlie and the Chocolate Factory' by Roald Dahl  
'Butterfly Lion' by Michael Morpurgo  
'Diary of a Killer Cat' by Anne Fine

**Handwriting** – Pupils will be reminded of letter formation, correct starting points and be encouraged to begin to join small groups of letters.

# Year 3: Autumn

## MATHS

**Place value within 1,000** – read, write, order numbers, rounding, solve number and practical problems, read Roman numerals to 12.

**Addition and subtraction** – 2 and 3 digit numbers and using formal written methods, solve multi-step problems.

**Multiplication and division** – identify multiples and factors, solve problems, recognise and use prime & square numbers, multiply & divide whole numbers & decimals and confidently use formal written methods.

Recap 2s, 5s and 10s. Move on to 3s and 4s and related division facts.

## R.E.

Christianity (with a focus on God)

Exploring the beliefs that many Christians hold. Looking into the Creation story and the relationship Christians have with God..

Discovering some of the beliefs Christians hold about God, from various Bible stories.

## MUSIC

"I've been to Harlem" is a traditional song about travelling around the world, full of creative possibilities. It will be the basis for playing rhythmic games.

The second unit is based around two songs; *Nao chariya de* – a Bengali folk song and *Mingulay boat song*, which is Scottish. Pupils will compare the two, to identify similarities and differences.

**Sound symmetry** - This unit takes symmetry as the inspiration for exploring structure in music, and is the basis for composing original music.

## P.E.

### Invasion games:

#### -football - handball

Play competitive games, modified where appropriate. Compare performances with peers and demonstrate improvement to achieve a personal best. Be taught running, throwing, attack and defence skills in isolation and in combination.

Swimming - attend weekly swimming lessons (Tuesday) to build confidence in the water

## PSHE

### Relationships with Family and Friends:

What makes a family; features of family life.

### Safe relationships:

Personal boundaries; safely responding to others; the impact of hurtful behaviour.

### Respecting ourselves and others:

Recognising respectful behaviour; the importance of self-respect; courtesy and being polite.

## SCIENCE

### LIGHT AND SHADOW

Recognise that they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. Recognise that shadows are formed when the light from a light source is blocked by a solid object. How does distance from a light source affect how bright it looks? How does being in darkness affect your sense of hearing?

**KEY SCIENTIST:** James Clerk Maxwell

### KEY VOCAB:

Light source, dark, reflect, ray, mirror, bounce, visible, beam, sun, glare, travel, straight, opaque, shadow, block, transparent, translucent.