

Power

Year 4 and 6 Autumn Term 2020

Science

Forces and magnets

- describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) • explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object
- identify the effects of air resistance, water resistance and friction, that act between moving surfaces
- recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

Electricity

- identify common appliances that run on electricity
- construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers
- identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery
- recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit
- recognise some common conductors and insulators, and associate metals with being good conductors • associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit • compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches • use recognised symbols when representing a simple circuit in a diagram.

English

Class Book: The Fastest Boy in the World by Elizabeth Laird will lead to writing as a response to the text- characters, letters, diary entries, prediction.

Other writing genre:

- Debate- Solar Power, Wind Power, Nuclear Power etc
- Biographies of inventors
- Narrative Poem- the Highway Man
- Shakespeare – The Tempest

Reading Comprehension- we will be using on-line reading resources from the children's Active Learn Account according to children's needs as well as real books.

Grammar:

Conjunctions, apostrophes for possession, adverbials, perfect form of the verb, dialogue, clauses, revision of other grammatical terms. Spelling patterns and rules- suffixes, prefixes and the roots of words.

Speaking and Listening- Children will prepare mini-presentations to the class related to the theme of 'Power'.

Mathematics

Year 4

Check and assess where the children are- what they have remembered and what they have forgotten.

Place Value

Addition and Subtraction

Measures and Data

Emphasis on time

Multiplication and Division

Year 6

Place Value,

Addition and Subtraction

Decimals and Fractions

Algebra

Multiplication and Division

Shape

More Place Value, Addition, Subtraction

RE

Sikhism: The Amrit Ceremony and the Khasla.

Does joining the Khasla make a person a better Sikh?

Hinduism: How does celebrating Divali bring a Hindu family together?

Christianity: Incarnation, Trinity

PE

Play competitive games, modified where appropriate and apply basic principles suitable for attacking and defending – particularly non-contact netball and football.

Multi-sport techniques and skills suitable for playing in Covid-safe ways; we will also be undertaking Cricket coaching (missed in the Summer term)

PSHCE

Health:

- ♣ Healthcare: Improving Life Chances and First Aid
- ♣ The Big Vote – Cancer, early detection and prevention
- ♣ Understanding Cancer
- ♣ Hospice Care

Art and Design

Create sketch books to record their observations and use them to review and revisit ideas

Improve their mastery of art and design techniques, including **drawing, painting** with a range of materials [for example, pencil, charcoal, paint, clay]

Learn about great artists in history-link to English work on biographies of inventors, eg- Leonardo Da Vinci

French

- Engage in conversation: ask and answer questions
- Speak in sentences using simple vocabulary and phrases and sentence structures

Themes: On the way to school, weather, numbers and where in the world is French spoken.

Geography

Linked to the book we are studying: The continent of Africa and the country Ethiopia, facts, maps, features, climate, comparisons.

Computing

Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts

Use sequence, selection, and repetition in programs; work with variables and various forms of input and output

Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

History

Linked to English biography work: Learn about significant inventors along with famous artists and composers (see art and music) Place these on our timeline.

Music

Due to Covid, we will not be singing or playing our instruments this term, but we will:

Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians and look at the history of music. As part of this we may play some percussion instruments which will be cleaned after use.

Design Technology

Understand and apply the principles of a healthy and varied diet.

Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. (This will need to be individual and simple in order to be Covid-secure).

Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.