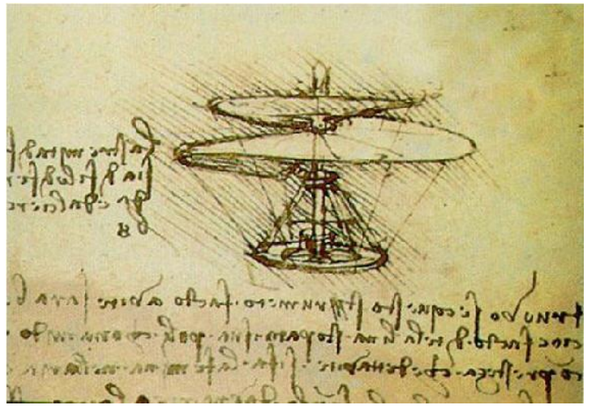
Incredible Inventions
Year 2 Spring term

Throughout history, people have imagined and then created new things to make their lives better, easier, and more enjoyable. From the wheel to penicillin to the computer, inventions continue to change the way we live. This topic introduces will introduce you to the amazing world of inventions, with a focus on the world of flight and a comparison of Leonardo da Vinci and the Wright brothers.

Ideas for topic texts to read at home: Rosie Revere engineer, Violet the pilot, Izzy Gizmo See inside inventions, The Wright brothers' first flight, Who was Leonardo da Vinci?



English

Texts: Leaf, Robot and the Bluebird
Writing outcomes:
Leaf
- Non-chronological report on polar bears
- Letter to the bear – persuade the him not to give up
- Retell of the story; write the story from different perspectives
- Book review

Robot and the Bluebird
- Recipe
- Diary entry
- Story

Science writing:
- recount of visit to science museum
- information text about an animal

Grammar and spelling: progressive form of **verbs** in the **present** and **past tense** to mark actions in progress; different types of sentences inc. commands and questions, noun phrases, joining clauses: coordination and subordination, Spelling of suffixes: -er, -est, -ly; - ful/less;. **Punctuation:** apostrophe for contractions and apostrophe for singular possession; question marks and exclamation marks.

Music

Students will develop their singing in two parts in the song 'Listen' as well as learning and singing about blues music in 'Strumming The Blues'. They will be able to recognise and play on different beats in a bar and also develop their ukulele strumming technique, learning the chord F and practise moving from chord F to chord C within a song.

Computing

- Digiducks dilemma
- Find out about…
- minibeasties

P.E.

1st half: Gynnastics: Pathways
2nd half: Dance: Explorers

Maths

Making equal groups
Sharing and grouping
Dividing by 2
Odd and even numbers
Dividing by 5
Dividing by 10
Bar modelling – grouping
Bar modelling – sharing
Solving word problems – division
Making tally charts
Creating pictograms
Creating pictograms
Making patterns with 2D shapes
Counting faces, edges and vertices on 3D shapes
Sorting 3D shapes
Making patterns with 3D shapes
Introducing whole and parts
Making equal parts
Recognising and finding a half
Recognising and finding a quarter
Unit fractions
Understanding other fractions
Understanding whole and parts
Counting in halves
Counting in quarters

P.S.H.E

- Hygiene: Keeping Clean – Bath-Time
- Hygiene: Skins – Skinny Tips
- Hygiene: Dental Hygiene 1 – Brushing Up!
- Hygiene: Dental Hygiene 2 – Bright White
- Hygiene: Dental Hygiene 3 – Top Teeth
- Keeping Safe: Drug Safety – Magic Medicine
- Changing & Growing: Similarities & Differences–Boys & Girls
- Changing & Growing: The Human Body – Body Bits
- Changing & Growing: Growing Up – All Grown Up
- Changing & Growing: Changing Needs – I Need
- Healthy Lifestyles: Physical Activity – Mighty Muscles
- Healthy Lifestyles: Exercise – Workout!

Art & D.T.

DT: We will make a bus using wheels and axels. After experimenting with paper aeroplanes, we will design our own plane, adding wheels and axels and exploring wing types.


Art: Inspired by Da Vinci, we will explore birds by looking carefully at feathers and sketching them in detail. We will make sculptural birds and nests using the feathers as inspiration.



Geography & History

In **history** We will 'meet' some famous inventors from the past and order some significant inventors and inventions on a timeline, then will match 'inventor questions' to actual inventions. We will meet Da Vinci the inventor and learn about his parachute idea through examining his technical drawings. To look at copies of Da Vinci's transport designs as examples of technical drawings. We will learn about the lives of the Wright brothers and compare their invention to Leonardo Da Vinci's prototypes. In **Geography** We will consider DaVinci's aerial maps, and ponder how he could have completed them so long ago. We will make our own maps of St Luke's Park after visiting, and will compare them to google maps to check for accuracy.

Science

Working scientifically in Key Stage 1
Asking questions: Children should ask simple questions and recognise that they can be answered in different ways.
Scientific enquiries: They should be able to do the following types of enquiry:
- Observations**.** They should observe closely, using simple equipment.
- Simple tests
- Identifying and classifying
- Secondary sources. They should use simple secondary sources to find answers.

Recording: They should gather and record data to suggest answers to their questions. With help, they should record in a range of ways and begin to use simple scientific language.
Analysing observations: They should use their observations and ideas to suggest answers to questions. They should notice patterns and relationships in their observations. They should talk about what they have found out and how they found out.

Spring term topics
Living things and their habitats (continued from the autumn term):
- Explore and compare the differences between things that are living, dead, and things that have never been alive
- Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.
- Identify and name a variety of plants and animals in their habitats, including micro-habitats
- Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.

Focus scientist: *Isabella Bird*
- **Animals including humans:**
- Notice that animals, including humans, have offspring which grow into adults
- Describe the basic needs of animals, including humans, for survival (water, food and air)
- Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

Focus Scientist: *Roger Payne*

R.E.

The Good News
Know that Jesus can change sadness into joy and that we should always remember to thank Jesus for his help. Know that Jesus used his power to help others
And reflect on the importance of these events.
Know that Jesus brought the good news of God's love and reflect on what that means for us.
The Mass
Know and reflect on the importance of the celebration of the Mass. Know and reflect on what happens at the beginning of Mass. Know about the readings at Mass and why we should listen to them.
Know that at the Offertory we offer gifts to God and at the Consecration the bread and wine are changed into Jesus. Know what to do at Mass and understand the 'Our Father'.