

Year 2, Autumn Term 1

World of Inventions



Narrative

This term we will be exploring some of the many wonderful inventions in the world. We will be learning about historical inventors and these will lead to our own scientific experiments and our own inventions. As we learn more about the properties of materials, we will make our own planes, boats and windsocks.

Alongside this, we will be exploring Quentin Blake's *Mrs Armitage* books. We will learn the stories using story maps and puppets before going on to write our own versions including our own marvellous inventions.

A highlight of the half term is a visit to the Farmers' Market to buy picnic items to enjoy together for a Mrs Armitage picnic.

Music

- Explore the music garden
- Learn to play a range of percussion instruments developing pulse and rhythms before inventing our own
- Listening to various instruments, how they have evolved over time and how they sound

Computing

- E-safety - Using ipads safely
- Inventing a spelling robot using algorithms to add the correct suffixes to words

English

- Story writing based on the stories of Mrs Armitage
- Sequencing the story of Mrs Armitage and the Big Wave
- A recount of our visit to the Guildford Farmers' market
- Write questions to the stall holders
- Writing instructions for making a boat with a sail
- Labelling and describing existing eco inventions
- Explanation texts to explain a new invention

Science

Focus on practical scientific methods, processes and skills:

- Investigations to explore the properties of materials including wood, metal, plastic, glass, brick, rock, paper and cardboard
- Grouping materials and describing their properties
- Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching
- Plan an investigation and begin to understand the principal of a fair test
- Investigation linked to floating and sinking
- Investigation related to wind direction

Art and DT

- Experimenting with colour mixing and make a colour wheel
- Design, make and evaluate a strong, aerodynamic paper aeroplane
- Design, make and evaluate their own invention
- Line drawing and shading of inventions

History

- Learning about the lives of a range of inventors and the significance of their inventions: the wheel—Stone Age; the first pedal-driven bike—Pierre Lallement; roller skate—John Joseph Merlin; first caravel—Henry the Navigator; the first windscreen wipers—Mary Anderson; first powered aeroplane flight—the Wright brothers; the life raft—Maria Beasley; the treatment for leprosy—Alice Ball
- Order inventions chronologically and place them on a timeline
- Compare the Farmers market with one from 100 years ago

