Spring Term – Foundation Overview (12 weeks)

What a fantastic beast!

Topic Overview

During this topic, the children will be learning about animals, habitats and how to sketch to show movement. This is a Science and Art based topic.

Assessment Criteria (Set against NC strands)	Assessment Criteria (In context to this unit)
KS2 Art and Design objectives • use shading to create mood and feeling • organise line, tone, shape and colour to represent figures and forms in movement **KS2 Science objectives:** **Forces:** • 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 – if it is small, can we produce an outfit that enables it to move faster? **Living things and their habitats:** • Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird • Describe the life process of reproduction in some plants and animals • Describe the changes as humans develop to old age. – Longitudinal study **Properties and changes of materials:** • compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets • know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution • use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating - • give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic • demonstrate that dissolving, mixing and changes of state are reversible changes	**Art and Design context:** Children will sketch out their beast that they have created in science lessons Children will create a mood board which shows their beast in different movements **Science context:** **Forces:** The children will investigate how their beast will fly, move through water and generally move. **Living things and their habitats:** The children will design an animal that fits the criteria to guard the Prison of Azkaban. They will need to consider how to match the animal to its habitat. **Properties and changes of materials:** The children will design an outfit which will be durable in any possible conditions.

- explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda

Working Scientifically:

- plan different types of scientific enquiry
- control variables in an enquiry
- measure accurate and precisely using a range of equipment
- record data and results using diagrams, graphs and labels
- use a given outcome to predict further results
- explain a conclusion from an enquiry
- explain causal relationships
- relate the outcome of an enquiry to state if it supports an argument or not
- read and spell scientific vocabulary

Relationships to the wider world

- Children will visit London to see Harry Potter world
- Children will look at how other artists have created movement
- Discussions about animals (extinction)
- Where do such animals come from?

Opportunities to show Super Learning powers

- Resilience: Sketching to show movement
- Ready: Children to show that they are ready to learn
- Resourceful

Vocabulary (on topic front cover)

Tier 2 –

(Words that they will be unfamiliar with)

hypothesis, forces, evaluate, subjective, objective, validity, reliability, conclusion, generalise, summarise, durable,

Tier 3 –

(Topic related, subject specific knowledge)

gravity, gravitational pull, air resistance, elasticity, Philosopher, Azkaban, chamber, dementors, Voldemort, beast, phoenix, Ron, Hermione, Weasley, Harry, Gringgotts, Diagon Alley,

Prep/homework related tasks

Pick two of the following choices:

1. Design and carry out a science investigation that applies your knowledge of forces.
2. Write a song/poem/emotive piece about a beast.
3. Create a beast using your art school and annotate features using scientific knowledge.

First choice due: Monday 10th February.

Second choice due: Monday 30th March.