



FANTASTIC BEASTS



Entry Task

Explore the school grounds to identify flora and fauna. How does plant life differ dependent on the environment?

What to revisit?

Science - Describe difference in life cycle of a mammal, amphibian, insect and bird. Describe reproduction in plants and animals.

Geography - Identify the significance of the Equator, Tropics of Cancer and Capricorn, the Northern and southern, Hemispheres, latitude and longitude.

Art - Critique Creatures Y2

Big Question

How and why are plants important to life?

How do insects use plants?

What is the life cycle of flowering and non flowering plants?

How significant are bees to plant production?

What is the difference between sexual and asexual reproduction in plants? Fertility

Investigation -How can new plants be grown from different parts of a parent plants? (Scientific Enquiry)

Look in detail at specimen drawings completed by Charles Darwin, building on observational drawing undertaken in Y2. Look specifically at use of line, tone, pattern, and implied texture.

Threads

Adaptation, Fertility, Significance, Community

Can I create, detailed anatomically accurate drawings of mini beasts showing increasing control of visual elements?

In response to specific critique and feedback, can I improve my observational drawings so that they become increasingly accurate?

Can I select from and use a range of tools and equipment to assemble a prototype accurately?

Evaluation— Does my prototype meet my design criteria? What went well and what could I improve before making a finished product?

Using an exploded diagram, can I pitch my idea for a new innovation to my peers?

Using FLUMPS, can I write a design criteria for a new innovative product?

Can I use my drawings to inspire a three dimensional sculpture of a chosen mini beast, selecting materials for purpose, audience and effect?

Can I explore a range of existing products (toys) that use pulleys, gears or cams? How do they work?

Can I evaluate my own artwork and the artwork of others, describing how different pieces make me feel?

Can I explore creating and using pulleys, gears and cams? Why is it important to measure accurately?

What are gears and pulleys? What is their function in a mechanical system? How do they work?

What is a cam mechanism? How does it work? What do the part of a cam mechanism do? How do different shaped cams affect movement?

Celebration/Evaluation

Using prior knowledge, design a low maintenance garden to encourage wildlife. Explain your choices to your class.

Curriculum Passport Challenge

Become a nature detective, visiting Court Hey Park to explore plants and wildlife

Key Vocabulary

As a scientist, I will use...

life cycle, life span, insect, sexual, asexual, germination, fertilisation, plant-lets, reproduction, stamen, stigma, filament, anther, sepal, ovary, ovule,

As a Design technician, I will use...

Existing products, FLUMPS, design criteria, aesthetics, 3D, safety precautions, prototype, cutting and joining techniques, gear, pulley, mechanical system, mechanism, cams, innovative, exploded diagram, assemble, cutting, shaping, finishing, joining, reinforce, structure, form,

As a n. artist, I will use...

Outline, interpretation, emulate, technique, organic, natural, media, observational drawing, colourist, replicate, purpose, audience, influence, line, tone, shape, form, space, texture

DRIVER SUBJECTS ARE SCIENCE, DT, ART