Entry Task

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

How do insects use plants?

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

How **significant** are bees to plant production?

Investigation - How can

plants? (Scientific En-

quiry)

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

What is ergonomics and why do we analyse existing products? Can new plants be grown from I research how products have different parts of a parent evolved to be more ergonomically designed?

ANTASTIC BEASTS

What to revisit?

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

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

Art - Critique Creatures Y2

Threads

Adaptation, Fertility, Significance, Community

Can I evaluate a range of existing bird boxes, discussing their durability and utility? Can I identifying their primary and second-ary functions? Can I produce a design crite-ria for my bird box considering FLUMPS?

Big Question

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

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

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

Can I work collaboratively to gather materials and discuss design choices including joining and fastening techniques to achieve desired aesthetics? Can I produce a annotated sketch of my 3D design using isometric technique?

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.

Why do architects use CAD, what are the pro's and con's? Can I use CAD to produce my final design of my prototype bird box and present my ideas to my peers?

What are different evaluating techniques? Can I select and carry out an appropri-ate evaluation?

Can I recall the safety precautions needed during my project? Can I use measuring, cutting and joining techniques, to construct mu bird box?

DRIVER SUBJECTS ARE SCIENCE, DT, ART

Celebration/Evaluation

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

Curriculum Passport Challenge

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

Key Vocabulary

life cycle, life span, cocoon, insect, sexual, asexual, germination, fertilisation, plantlets, reproduction, stamen, stigma, filament, anther, sepal, ovary, ov-

As a Design technician II will use...

Ergonomics, existing products, durability, utility, FLUMPS, design criteria, aesthetics, 3D, isometric technique, computer aided design CAD, safety pre-cautions, prototype, cutting and joining techniques

Assemble, prototype, cutting, shaping, finishing,