

Year 5 On the Doorstep— Protecting our habitats

Intent: For children to know about other living things in their environment and how to respect and value the many differing habitats.

Hook: Visit to a polluted habitat e.g. beach, pond, park

P4C ('Botheredness')

Cohesion, Forgiveness, Care, Choice

Notable people

Who?	What did they do?
Isaac Newton	Famous mathematician and scientist who discovered the law of gravity.
Angie Lewin	A British printmaker, often focusing on nature and wildlife.
Gustav Holst	British Composer known for his orchestral suite called 'The Planets'.

Key Vocabulary

Anther, pollen, stamen, stigma, bulb, dispersed, dissect, embryo, fertilisation, flower, function cell, germination, life cycle, mature, metamorphosis, ovary, ovule, petal, plant, pollen, pollination, reproduction, seed, structure, collagraph, resist, relief, landscape, portrait, original, master, printing, collage, pattern, shape

Air resistance, water resistance, gravity, Newton, gears, pulleys, Earth, mechanisms, load, pivot point, Earth, Sun, Moon, axis, rotation, day, night, phases of the moon, star, constellation, spherical, solar system, orbit, planets, pitch, tempo, duration, silence, texture, structure,

Key Dates

Time	Fact
1687	Isaac Newton published his theory of gravity.
1969	Apollo 11 was the first flight that landed on the moon with humans. Neil Armstrong and Buzz Aldrin formed the crew

Trips, Visitors and Visits

Waks around the local area to include Rivacre Valley

Visit to Chester Zoo

Authentic Product	Subjects Covered	Knowledge of
Develop a website about habitats and living things in the local area.	Science—Living Things and Their Habitats Computing (Junior Website Developer) P4C	<ul style="list-style-type: none"> • You create a website using pages, titles, images, videos and text • How important it is to know your audience when you are designing information for others. • You need permission to use images and text that others have made or written. • Reproduction is when an animal or plant produces one or more individuals similar to itself • Sexual reproduction requires two parents with males and female cells and will produce offspring that is similar. • Asexual reproduction will produce offspring that is identical to the parent and requires only one parent. • Life cycles of mammals, birds, amphibians and insects have similarities and differences. • One difference is that amphibians and insects go through the process of metamorphosis. This is when the structure of their body changes significantly as they grow e.g. caterpillar to butterfly) • How pollution can affect living things and their habitats and that this can cause animals to die out.
Create a collagraph that represents animals in their habitats to show at an art gallery for parents.	Art—Printing and Collage, Drawing DT	<ul style="list-style-type: none"> • Make sure when using hand-cut collage pieces that they protrude equally at a reasonable height so they all print • The worth of doing a smaller test plate before printing on your final piece of art. • Understand that the card pieces 'in relief' are what are printed not the background, and that this differs from incised printing.

MINI TOPIC	Subjects Covered	Knowledge of:
Earth and Space Forces	Science Computing (Digital Appren- tice) Music (Composition) Art (3D)	<ul style="list-style-type: none"> • The movement of the earth and other planets around the sun in the solar system. • The moon orbiting the earth. • The sun, earth and moon being spherical. • Earths rotation around the sun and how it leads to day and night. • Unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and a falling object • Air and water resistance act between moving surfaces. • A pulley is a simple machine that can be used to change the direction of a force and can also be used to reduce a force • A mechanism is a device that allows a small force to be increased to a larger force. • Pitch is how high or low a sound is. • Tempo is how fast or slow music is • Duration is the time for which the sound continues • Silence is the absence of sound • Texture is how the different elements of music are combined • Structure is the way that the piece of music is built up.
Which concepts do we find hard to understand in Christianity? Christianity based unit	RE	<ul style="list-style-type: none"> • Trinity means 3 parts of one God • The three parts of God are god the Father, God the Son and God the Holy Spirit • Crucifixion was the method of punishment used against Jesus • Christians believed that God raised Jesus on the third

See long term plans for French, PE, Literacy, Maths and SRE.