



TSS Primary Science MTP 2022-2023

Year 4 Block 2 – Biology

| Key Targets and Learning Objectives | Key Activities | Equipment |
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| <ul style="list-style-type: none">• Identify some of the important bones in the human body (limited to skull, jaw, rib cage, hip, spine, leg bones and arm bones)• Know that bones move because pairs of muscles that are attached to them contract and relax• Describe some important functions of skeletons (limited to protecting and supporting organs, enabling movement and give shape to the body)• Know that some animals have an exoskeleton• Identify vertebrates as animals with a backbone and invertebrates as animals without a backbone• Know that medicines can be used to treat some illnesses, and describe how to use them safely• Know that plants and animals can have infectious diseases, and vaccinations can prevent some infectious diseases of animals• Know that plants and animals need energy to grow, live and be healthy, and plants get their energy from light while animals get their energy from eating plants or other animals• Describe the importance of movement in maintaining human health• Know that different animals are found in, and suited to, different habitats• Know plants and animals can survive in environments other than their habitats• Describe food chains as being made of producers and consumers, and classify consumers as herbivores, omnivores, carnivores, predators and/or prey• Use models to show relationships, quantities or scale (WS)• Use secondary information sources to research and answer to a question (WS) | <ul style="list-style-type: none">• Lesson 1 – Identify bones and describe the functions of skeletons• Lesson 2 – Make a model of an arm. Know that bones move because pairs of muscles contract and relax.• Lesson 3 – Identify animals that are vertebrate and invertebrates, sorting activity. Make models of exoskeletons and hydrostatic skeletons.• Lesson 4 – Spot the difference activity with a tree and a human starter. Know where trees and animals get their energy, and know that animals need to move to be healthy.• Lesson 5 – Sorting activity – where animals are found around the world and how they have adapted to their habitat.• Lesson 6 – sorting activity – place animals as herbivores, omnivores, carnivores, predators and/or prey. Describe their place in food chains.• STEM activity – build or make a nest (or another habitat for a small animal). Walk around school, collecting small twigs etc and use other materials to build a nest. | <ul style="list-style-type: none">• Card• Balloons• Butterfly clips• Papier mache• Food chains• Loop cards |



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| Key vocabulary | Going Green Link | Integration of technology | |
|---|--|---------------------------|--|
| Biology, skeleton, bones, muscles, contract, relax, pairs, vertebrates, in vertebrates, endoskeleton, exoskeleton, adapt, habitat | Look at how climate change and global warming is affecting life on earth | iPads for use in research | |