Core Knowledge

- A producer is a living thing that makes its own food. Most producers need sunlight, water and air to survive.
- A consumer is a living thing that gets energy by eating other organisms for food.
- A food chain is a series of organisms listed in a way that shows which is a food source for another.
- A food web is multiple connected food chains in an ecosystem.
- Organisms need chemical energy to move and grow.
- Carl Linnaeus is famous for his work in Taxonomy.
- Plants are producers that make food using the process of photosynthesis.
- Plants are green because their leaves and stems contain a chemical called chlorophyll.

Living Things



Plant -> Caterpillar -> Robin -> Hawk

The robin is a predator when it eats a caterpillar but then becomes prey for a hawk!

Home Learning

Investigate how exercise affects our heart rate.

- First, find your resting heart rate. Make sure you are relaxed then locate your pulse. Record the number of beats you feel in one minute.
- Now spend 1 minute exercising at a low intensity e.g. walking. At the end of the minute, immediately record your pulse rate.
- Repeat this process at 2 further intensity levels e.g. jogging for 1
 minute and sprinting for 1 minute. Remember to rest in between
 each exercise to allow your heart to return to your resting heart
 rate and to make it a fair test.
- Look at your data set. Can you explain your findings? Why do our hearts beat faster when we exercise? Can you create an appropriate graph to share your results?

Try the investigation with a friend / family member. Compare your results!

Key Vocabulary

- Organism
- Scavenger
- Herbivore
- Carnivore
- Vertebrates
- Invertebrates
- Chile es els II
- Chlorophyll
- Chloroplasts

- Biomass
- Transpiration
- Deforestation
- Invasive species
- Prevention
- Endangered species
- Cytoplasm

- Nucleus
- Disease
- Defence
- Addictive
- Substance
- Stimulant
- Depressant

Domain Themes

- Producers, Consumers and Decomposers
- Food Chains and Food Webs
- Classification
- Photosynthesis
- Disruption to Ecosystems
- Cells
- Disease
- · Smoking, Drugs and Alcohol

Core Knowledge

- An ecosystem includes all the living and non-living things that interact in a given area.
- A change in an ecosystem that affects organisms is known as a disruption.
- Some disruptions have natural causes. However, humans cause many ecosystem disruptions, too.
 Disruptions such as fire, weather, geologic events (volcano, earthquake, tsunami), disease, overfishing, deforestation, invasive species, water pollution.
- A cell is the smallest unit of life. Cells are the basic unit of all living things.
- Nucleus this controls what happens in the cell. It contains DNA, the genetic information that cells need to grow and reproduce.
- Disease can be passed in many different ways air, touch, animals, water, food.
- Stimulants speed up messages in the brain and along the nerves. This makes you feel more alert. Nicotine from tobacco is a stimulant. Caffeine is another stimulant and is found in fizzy drinks, coffee and tea.