

Knowledge Organiser

Key Vocabulary

Key Vocabulary:

food chains, life processes, alive, living, dead, never been alive, food source, producer, consumer, predator, prey, decompose, plants, animals, survive, movement, respiration, sensitivity, growth, reproduction, excretion, nutrition, life cycle, source, herbivore, carnivore, omnivore

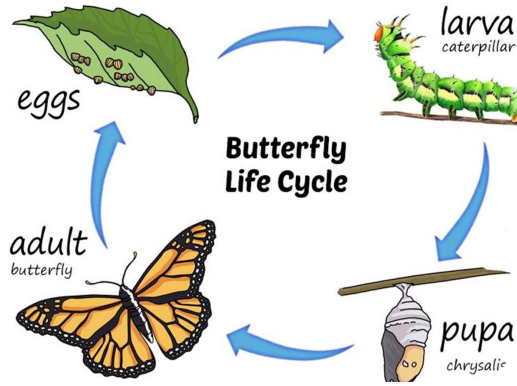
Text Links:

The Very Hungry Caterpillar
Tadpole's Promise
The Tiny Seed

Where this can take you - careers

- Microbiologist
- Zoo Keeper
- Nurse/Midwife/Doctor
- Vet

The Big Question: Do all living things need food to survive?



STEM links to try at home

- Think about your favorite animal and research the food chain that it is a part of.
- Collect items from your garden. Can you identify if they are living, dead or have never been alive.
- Places to visit: local farm, allotment, park, nature reserve, woods, supermarket, zoo

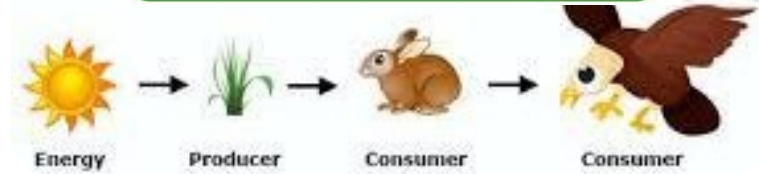


Working Scientifically Knowledge

Characteristics of living things

Movement
Respiration
Sensitivity
Growth
Reproduction
Excretion
Nutrition

MRS GREN



Observing over time



Identify, Classifying & Grouping



Comparative & Fair Testing



Research Using Secondary Sources



Domain Knowledge

Conceptual Science Knowledge

Explore and compare the differences between things that are living, dead, and things that have never been alive. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.

Knowledge Organiser

MATERIALS

The Big Question: Are waterproof materials always bendy?



Working Scientifically Knowledge

Key Vocabulary

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properties, materials, suitability, classify, wood, metal, glass, plastic, water, rock, sink, float, hard, soft, flexible, transparent, opaque, translucent, squash, brittle, smooth, rough, reuse, recycle, reflective, non-reflective, elasticity, rigidity, flexible, durability, strength, solid, object, opaque, waterproof

waterproof



transparent



rubber



absorbent



bendy



leather



plastic



fabric



wool



What jobs could this lead you to?

- Architect
- Design engineer
- Research scientist
- Materials scientist



Conceptual Science Knowledge - Materials

Identify and compare the variety of everyday materials including wood, metal, glass, brick, rock, paper and cardboard for particular uses.

Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting, twisting and stretching.

glass



brick



metal



stone



wood



Domain Knowledge

Identify and name different every day materials.

Describe the reasons that certain materials are used to make objects (purpose and suitability)

Identify materials properties

STEM links to try at home

Try seeing which materials float and which sink and what materials are absorbent or waterproof. Put different items in a bucket of water or the bath and record which float at the top and which sink to the bottom. Can any of them withstand the water, do they absorb it or are they water resistant. Think about why certain materials are this way, what could they be used for?

Observing over time



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