



Spring Vale Primary School: Science Reception



Topic: Animals Including Humans

Learning Aims:

- Shows some understanding that good practices with regard to exercise, eating, drinking water, sleeping & hygiene can contribute to good health.
- Describe what they see, hear & feel.
- Identify different parts of their body & animals.
- Be able to show care and concern for living things.
- Know the effects exercise has on their bodies.
- Have some understanding of growth and change.
- Talk about things they have observed including animals.
- Observational drawings of animals.



Steve Backshall

Learning Outcomes: Pupils can...

Reception
Expected

- I can name different parts of my body.
- I know that I must exercise to be healthy, and I can describe the impact of exercise on my body.
- I understand that animals including humans grow over time.

Reception
Exceeding

- I can explain what I use the different parts of my body for.
- I can explain how animals including humans grow over time.
- I can name body parts of different animals and explain how they are different to humans.

Wonder Question:
Why do we need to exercise?



Investigation Bank:

- Healthy Eating Investigation (Food Tasting)
- Plastic Pollution Investigation.
- Observational Drawing.

Last Taught:
Nursery



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Topic: Plants

Learning Aims:

- All plants need water, light and warmth to grow and survive.
- A seed produces roots to allow water to get into the plant and leaves to collect the sunlight.
- Extend vocabulary: blossom, buds, bulb, petals.
- Describe what they see, hear & feel whilst outside.
- Name & describe some plants.
- Draw pictures of plants.
- Understand the effect of changing seasons on the natural world around them.
- Understand the key features of the life cycle of a plant.



Steve Backshall

Learning Outcomes: Pupils can...

Reception Expected

- I can describe what a plant needs to grow.
- I can explain how a plant is able to extract the things it needs from the soil.
- I can describe the changes of plants due to the changing seasons.
- I can draw and label the key parts of plants.

Reception Exceeding

- I can explain how sunlight and water help a plant to grow.
- I can explain the key features of a life cycle of a plant.
- I can explain how water and sunlight are taken in by a plant.



Wonder Question:
What happens to a plant without sunlight?



Investigation Bank:

- Floating and Sinking Investigation
- Shadow Chasing Investigation
- Light / Sound Investigation

Last Taught:
Nursery



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Topic: Everyday Materials

Learning Aims:

- Observe & interact with natural processes, such as ice melting, a sound causing a vibration, light travelling through transparent material, an object casting a shadow, a magnet attracting an object & a boat floating on water.
- Use vocabulary to name specific features of the environment, both natural & man-made.
- To explore and talk about different forces they can feel e.g. stretch, snap, rigid, magnetic repulsion, water pushing up when pushing a boat under.
- Notice & discuss patterns around them.
- To be able to talk about the characteristics of solids and liquids e.g. cooking eggs and melting chocolate.



Steve Backshall

Learning Outcomes: Pupils can...

Reception Expected	<ul style="list-style-type: none"> • I can change the shape and size of a shadow. • I can confidently use appropriate vocabulary to name specific parts of the environment, both natural and man-made e.g. playground and forest. • I understand that light will travel through a transparent material. • I can identify different forces I am able to feel, for example: stretch, snap, push, pull.
Reception Exceeding	<ul style="list-style-type: none"> • I can make simple suggestions about what might happen during investigations and give reasons for this. • I can comment on why certain changes occur. • I can describe the differences between certain objects (solids and liquids).



Wonder Question:
How does my shadow change during the day?



Investigation Bank:

- Floating and Sinking Investigation
- Shadow Chasing Investigation
- Light / Sound Investigation

Last Taught:
Nursery



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Topic: Living Things and Their Habitats

Learning Aims:

- Describe what they see, hear & feel whilst outside.
- Observational drawings of the natural world.
- Discuss how to care for the living things & their habitats.
- Examine change over time.
- Understand the key features of the life cycle of a butterfly.
- Express opinions on natural & built environments & opportunities to hear different points of view on the quality of the environment.

Use words such as busy, quiet.



Steve Backshall

Learning Outcomes: Pupils can...

Reception
Expected

- I can describe how things may change over time.
- I can describe how seasons might change habitats.
- I can describe the key stages of a life cycle with reference to certain animals.

Reception
Exceeding

- I can give an opinion on the suitability of habitats for different animals.
- I can give simple reasons for why changes happen over time.



Wonder Question:
What happens to the leaves of trees in Autumn?



Investigation Bank:

- Drawing Investigations
- Observation Investigations
- Butterfly Lifecycle Investigation

Last Taught:
Nursery