

Culture & Heritage Video Series

MANGROVE ECOSYSTEMS

Curricular Topics



Primary Curriculum:

Year 2 (Autumn 1 & 2): Living Things and Their Habitats

Year 2 (Spring 1): Plants

Year 3 (Spring 1 & Summer 2): Plants

Year 4 (Summer 2): Living Things and Their Habitats

Year 5 (Spring 1): Living Things and Their Habitats

Year 6 (Spring 2): Adaptation and Inheritance

Science Topics Covered

- Mangrove habitats
- Identifying the three species of mangroves found in the Cayman Islands and how they contribute to plant, animal and human life
- Photosynthesis and evaporation
- Animal lifecycles
- Plant roots and stems
- Unusual plants (salt-resistant trees)
- Weather patterns and rainfall
- Climate change

Art Topics Covered

- Observational drawing
- Abstracting nature
- Environmental art

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Vocabulary



mangrove

A tree or shrub that can grow and survive in saline (salty) or brackish water of tropical regions.

ecosystem

A community of plants, animals and other organisms, and the environment they live in (including weather and landscape).

adaptations

Special traits or behaviours that allow a living thing to survive in its environment.

species

A group of similar living things that can reproduce with one another.

lifecycle

The stages of life for a living thing.

evaporation

The natural process of liquid changing into gas.

prevailing winds

Winds that usually blow in a given direction over a particular area.

preserving

To keep safe or take care of something for the future.

sediment

Small pieces of solid material that are moved to and settle at a new location by a natural process.

climate change

Changes in the characteristics of the Earth's atmosphere and weather patterns over time.

photosynthesis

The process by which plants turn sunlight into energy.

oxidized

When a substance reacts or combines with Oxygen.

atmosphere

The layer of gas surrounding Earth which helps to make life possible by providing air to breathe and protection from extreme temperatures, radiation and ultraviolet rays from the sun.

drought

A long period of low rainfall or shortage of water.

motif

A repeated pattern in an image or story.

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Follow Up Questions



What are the three species of mangroves that are found in the Cayman Islands?

Cayman's mangroves species are not scientifically related, but what similar trait do they all share?

What are three examples of animal species that require the mangroves as part of their lifecycle?

Mangroves help to create rainfall through what scientific process?

In her interview, Daniella Christian describes mangroves as 'walking trees'. What does she say is an added benefit to their reaching roots?

Why are mangroves important for slowing down climate change?

What 'motifs' does Chris Mann use to represent the mangroves in his paintings?

Chris Mann used his art to help educate others about Cayman's mangroves. What can you do to help educate others and protect them for the future?

