

Mangroves Mahoot Island

Aim and introduction

Mangroves are an incredibly important habitat. They provide nurseries for young marine life, are home to unique species, hotspots for biodiversity and are a natural flood defence against storm surges. Not only this but they also store 5 times more carbon than tropical rainforests and provide food and work for many communities along the coast.

This lesson will look at the location, importance, threats and solutions to the mangroves in Oman focussing specifically on Mahoot Island – the largest natural mangrove forest in Oman.

This lesson will take approximately 1 hour.

Curriculum links

Physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle.

Learning goals

- Describe the location of mangroves on a global and local scale.
- Understand why mangroves are important.
- Identify threats to the Mahoot Mangrove Forest.
- Explore potential solutions for mangrove forests in Oman.

Learning outcomes

Greater depth: clearly pupils describe the location of the world's mangrove forests drawing sound conclusions as to why they are in these places. They show thorough understanding of the importance of mangrove forests from a local to global scale. Pupils show effectively use a named example to provide extended knowledge of the threats and futures of mangrove forests.

Expected level: pupils describe the location of the world's mangrove forests drawing some conclusions as to why they are in these places. They show understanding of the importance of mangrove forests at different scales. Pupils use a named example to provide knowledge of the threats and futures of mangrove forests.

Working towards: pupils describe the location of the world's mangrove forests, there may be some conclusions as to why they are in these places, these may be inaccurate. They show understanding of the importance of mangrove forests within one scale (i.e. local, national, global). Pupils show knowledge of the threats and futures of mangrove forests this may have reference to named example but will be limited in detail.

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Support: with guidance, pupils describe the location of the world's mangrove forests, there may be limited theories as to why they are in these places, these may be inaccurate. They show some understanding of the importance of mangrove forests within one scale (i.e. local, national, global). Pupils show knowledge of the threats and futures of mangrove forests but will not reference a named example.

Key terms

- Mangroves
- Mahoot
- Ecosystem
- Habitat
- Nursery
- Economic
- Location
- Carbon
- Flood defence

Learning resources

- Teacher presentation_Mangoves Mahoot Island (NOTE: Carousel resource sheets will be at the end of this under the 'resources' section).
- Mahoot Mangroves Carousel Sheet

What you will need

- ICT equipment (i.e. tablet, laptop etc) for Stations 1&4 of the carousel task.
- Atlases can replace the ICT equipment for Station 1 or support the equipment.
- Headphones for station 4.
- Podcast Transcript_Gap fill answers (if needed)

Challenge and support

When completing the starter activity challenge pupils to create a question which is on a different scale to what the image is showing. Support pupils by providing sentence starters which they can choose from.

Support pupils by reducing the number of tasks which need to be completed in the carousel task. Challenge pupils in the same task to identify patterns with the information being gathered.

Starter

Project the images on the board of mangroves. Ask pupils to use one of the 5Ws to ask a question about that image which needs to be kept to one side until the end of the lesson. A mini whiteboard would be great for this however a separate piece of paper will also work. As long as there's space for others to respond at the end of the lesson.

Main 1

Introduce the theme for the lesson, display a map with the location of the world's mangrove forests on the board while pupils develop their locational vocabulary to describe the location of the mangrove forests.



Main 2

Pupils complete a carousel activity exploring the importance, threats and futures of the Mahoot Mangroves. NOTE: There are four stations available for this activity, to avoid overcrowding at the stations, you may want to duplicate the stations depending on your class size.

Plenary

Swap questions which were written at the start of the lesson with another pupil. Get them to write a response based on what they know. If time allows, this activity can be repeated a few times so that a range of responses are gathered.