

FRAGMENTS OF HOPE: PROTECTING THE BELIZE CORAL REEFS (Teacher Notes)

Designed for students, primarily between the ages of 10 – 14 years, studying science, geography and global citizen subjects.

Key learning outcomes:

Generic Learning outcomes	Relevance to England National Curriculum
Case study for how environments can change as a result of human actions, locally and globally, with specific reference to how carbon dioxide produced by human activity is affecting climate, ocean habitats and communities	KS2 Science – living things and their habitats KS3 Chemistry – production of carbon dioxide by human activity and impact on climate
Different ways in which a citizen can contribute to the improvement of her or his local and global community, including actively volunteering and undertaking other forms of responsible activity	KS3 Citizenship – roles played by voluntary groups in society, and ways in which citizens work together to improve their communities, including opportunities to participate in school-based activities
Ability to describe and understand the Belize coastline and coral reef system as a global case study	KS2 and KS3 Geography – Locational knowledge, Human and physical geography, Geographical skills and fieldwork
Be inspired to develop competency in geographical skills, including communicating geographical information, using a virtual earth GIS resource	

Supporting the following UN Sustainable Development Goals as a case study:



Climate Action: providing an example of the impact of climate change on a specific ecosystem and community as a stimulus for active global citizenship.



Life Below Water: inspiring all of us to take action to ensure conservation of life below water.



Responsible Consumption and Production: how actions in one part of the world can result in negative consequences elsewhere (both intended and unintended).

Fragments of Hope is a community based organisation in Belize, Central America, committed to the protection and restoration of the unique Belize Coral Reef System, a UNESCO World Heritage Site. This resource has been developed in partnership to provide a real-world case study of climate change and active citizenship, to inspire young people to change their behaviours and help look after the planet.

Resources:

These resources support learning sessions about climate change:

- Fragments of Hope: Protecting the Belize Coral Reefs introductory [video](#)
- Fragments of Hope: Protecting the Belize Coral Reefs [interactive map](#)
- Short animated films and downloadable resources on the Fragments of Hope [website](#)
- Fragments of Hope: Protecting the Belize Coral Reefs Activity Sheet (teachers and student versions)

The attached Activity Sheet (including a teacher version with answers, and a student version without) can be used in its entirety as a 1 hour learning session, or elements incorporated into learning sessions about climate change.

Students will need access to good strength broadband, and an up-to-date version of a common desktop browser, ideally Chrome or Firefox. The resource does support most common current iOS and Android mobile devices, although the controls will be different.

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