

Year 4 What causes extreme weather and how does it affect us?

Sequence of learning					
Space	Space and scale	Place and scale	Space and scale	Space	Place and scale
<p>Where are the equator and the tropics of cancer and Capricorn located?</p> <p>What are the 7 continents and 5 oceans of the world and where are they located?</p> <p>Can I locate the UK, the USA and the Atlantic ocean on a world map?</p>	<p>What is a hurricane and how and where are they formed?</p>	<p>What is the impact of a hurricane on human life?</p> <p>Hurricane Katrina/ Hurricane Irma</p>	<p>What is a jet stream and how does it affect UK weather?</p>	<p>What extreme weather have we encountered in the UK?</p> <p>Wainfleet flooding / Storm Dennis/ Ciara/ Jorge *link to prior learning on rivers and flood planes</p>	<p>How has extreme weather affected local communities?</p>

<p><u>Vocabulary</u></p> <p>flood, hurricane, wind, environment, tides, landscapes, rainfall, jet stream, cyclone, typhoon, settlement, community, aerial photographs, latitude, longitude, equator, tropics of Cancer, tropics of Capricorn</p>	<p><u>Resources and actions</u></p> <p>https://www.ducksters.com/science/earth_science/hurricanes.php - what causes a hurricane?</p> <p>https://en.wikipedia.org/wiki/Jet_stream jet stream video</p> <p>Speak to Gareth about the possibility of interviewing flood victims from Wainfleet (by email).</p>	<p><u>Expert outcome:</u></p> <p>Write and perform a monologue from the perspective of a Wainfleet flood victim.</p>	<p><u>Previous Learning:</u></p> <p>Children have engaged with learning about the continents and oceans in Year 2. Children have learnt about other forms of natural disasters in Year 3. They have also conducted an in-depth study of our locality in Years 2, 3 and earlier on in Year 4.</p> <p><u>Preparing for:</u></p> <p>Learning about New Orleans in the Year 5 American tourism unit. This unit also supports the children with engaging in learning about climate change in Year 5 and 6.</p> <p><u>Bespoke to our school:</u></p> <p>Local area study of another LAAT school- Wainfleet- that has been affected by flooding.</p>
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Intended outcomes:

- The seven continents of the world are: Europe, Asia, Antarctica, Australasia (Oceania), Africa, North America, South America.
- The Five Oceans of the world are the Pacific, Atlantic, Southern, Arctic, Indian.
- The Tropics of Cancer sit 23.5 degrees north of the Equator.
- The Tropics of Capricorn sit 23.5 degrees south of the Equator.
- Hurricanes form over the warm ocean water of the tropics. When warm moist air over the water rises, it is replaced by cooler air. The cooler air will then warm and start to rise. This cycle causes huge storm clouds to form. These storm clouds will begin to rotate with the spin of the Earth forming an organized system.
- The equator is the imaginary great circle around the earth's surface, equidistant from the poles and perpendicular to the earth's axis of rotation. It divides the earth into the Northern Hemisphere and the Southern Hemisphere.
- Heavy rain and saturated ground causes flooding.
- Extreme weather is serious weather that is different from the normal weather patterns in an area.
- A jet stream is made by air currents encircling the globe several miles above the earth. There are typically two or three jet streams in each of the northern and southern hemispheres.
- Hurricanes affect humans by: destruction of homes and natural landscape due to heavy winds, rising sea level particularly if hurricane starts out at sea, flooding in low lying areas, heavy rain, financial burden on an area, impact on wider economy