

Frozen Kingdoms

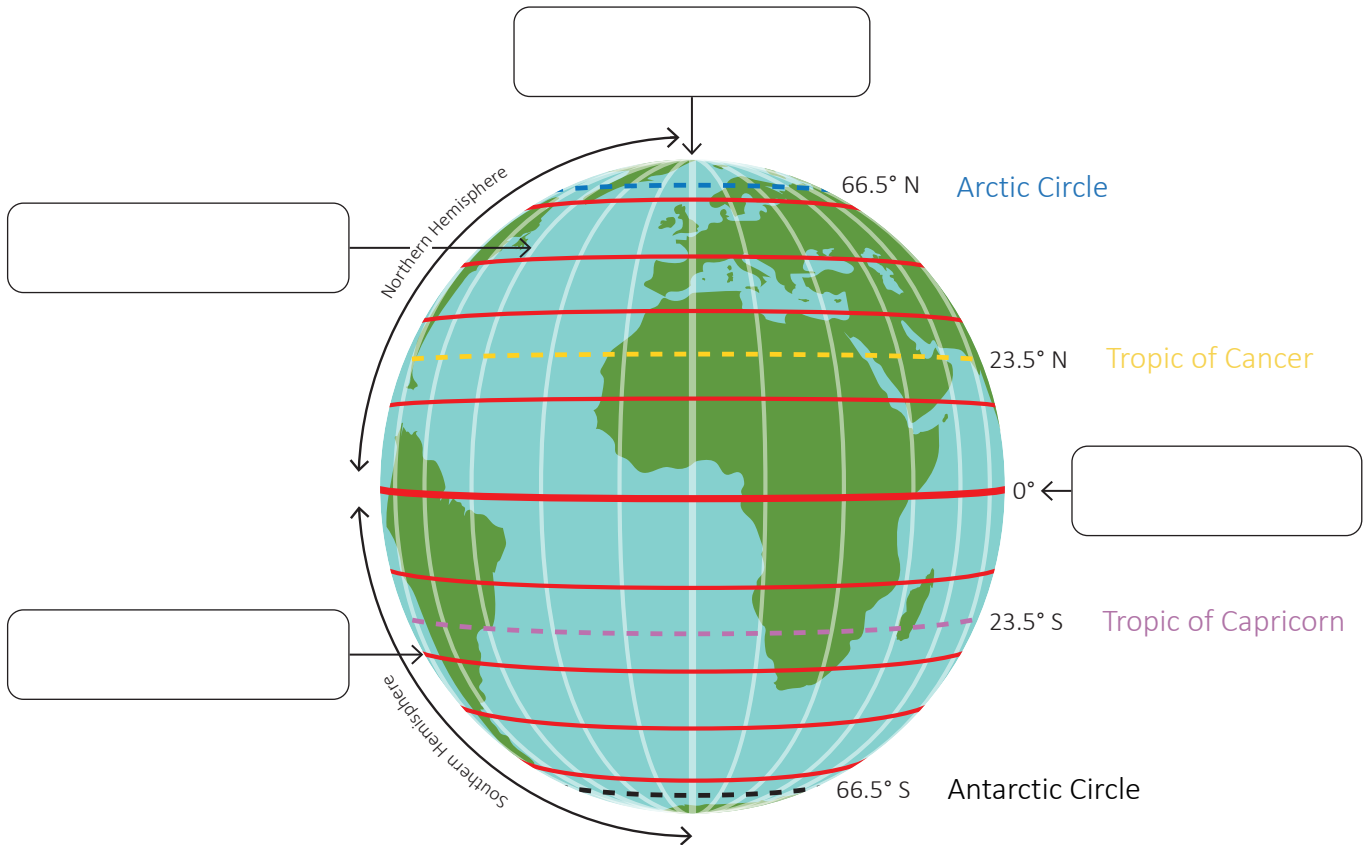
Name



These activities are for you to do at home. You can do all of them or choose the ones that you find most interesting.

Activities

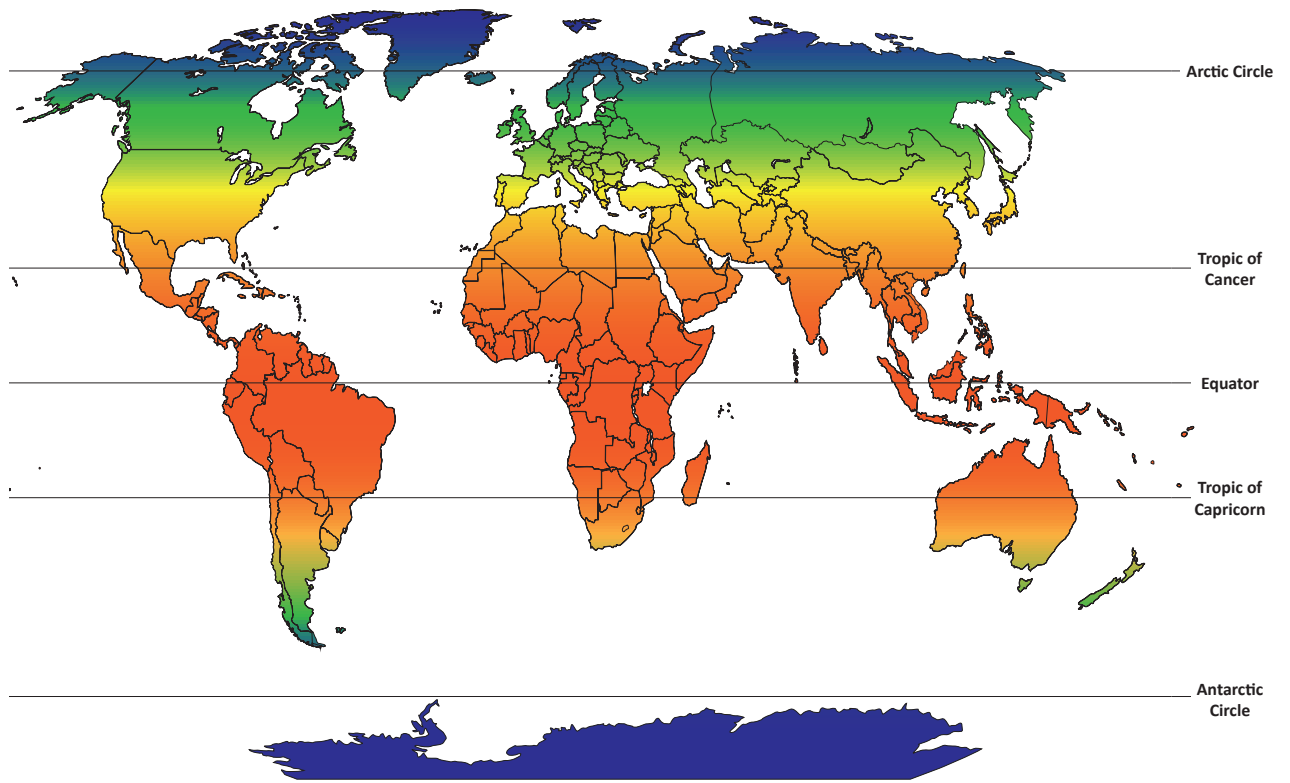
1. Use the internet and other source materials to label the diagram of the Earth.



Useful words

- equator
- Prime Meridian
- lines of latitude
- lines of longitude

2. This map shows world climate zones. Use the internet to research the characteristics of each and add a description of each to the key.



● polar zone _____

● temperate zone _____

● desert zone _____

● tropical zone _____

● equatorial zone _____

3. Polar landscapes have many interesting natural features, including icebergs, glaciers, mountains, ice fields, tundra and boreal forests. Use the table to record a definition and description of each feature.




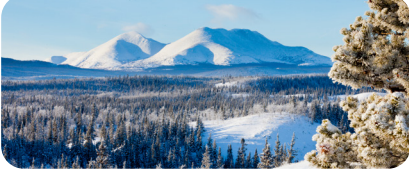
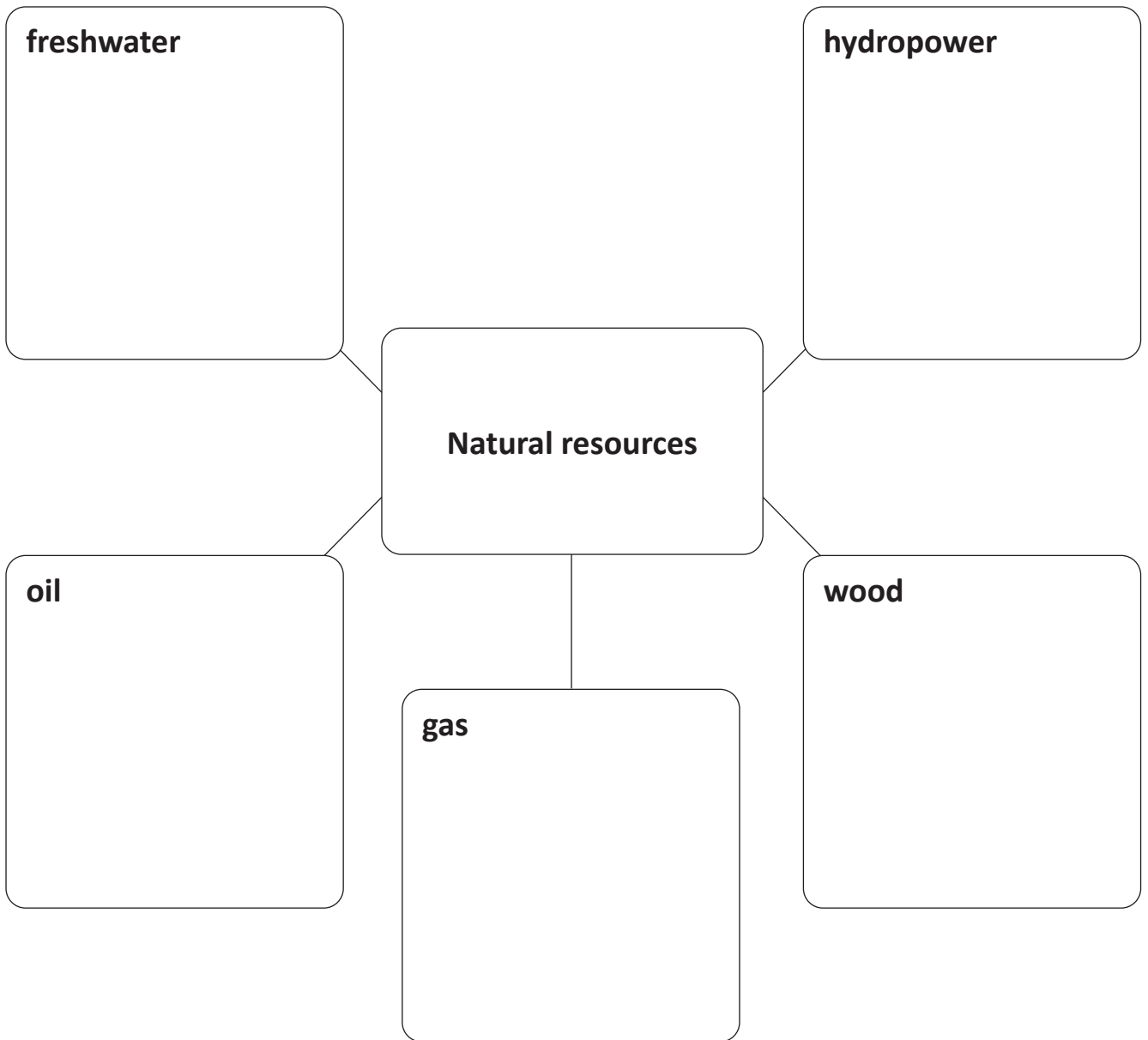
| Landscape feature | Definition | Description |
|--|------------|-------------|
| <p style="text-align: center;">Iceberg</p>  | | |
| <p style="text-align: center;">Glacier</p>  | | |
| <p style="text-align: center;">Mountain</p>  | | |
| <p style="text-align: center;">Ice field</p>  | | |
| <p style="text-align: center;">Tundra</p>  | | |
| <p style="text-align: center;">Boreal forest</p>  | | |

Image from: Wikimedia Commons/Public domain

4a. The Arctic is rich in natural resources, including oil, gas, wood, freshwater and hydropower. Use the mind map to write a short description of each.



4b. Which of these natural resources are used, and which are largely untapped?

5. Many people are concerned about the impact of climate change on the polar regions. Gather evidence to find the answers to the questions and give a personal view about climate change.

What is global warming?

What is climate change?

What are four causes of global warming?

1. _____
2. _____
3. _____
4. _____

What is the impact of climate change on the planet?

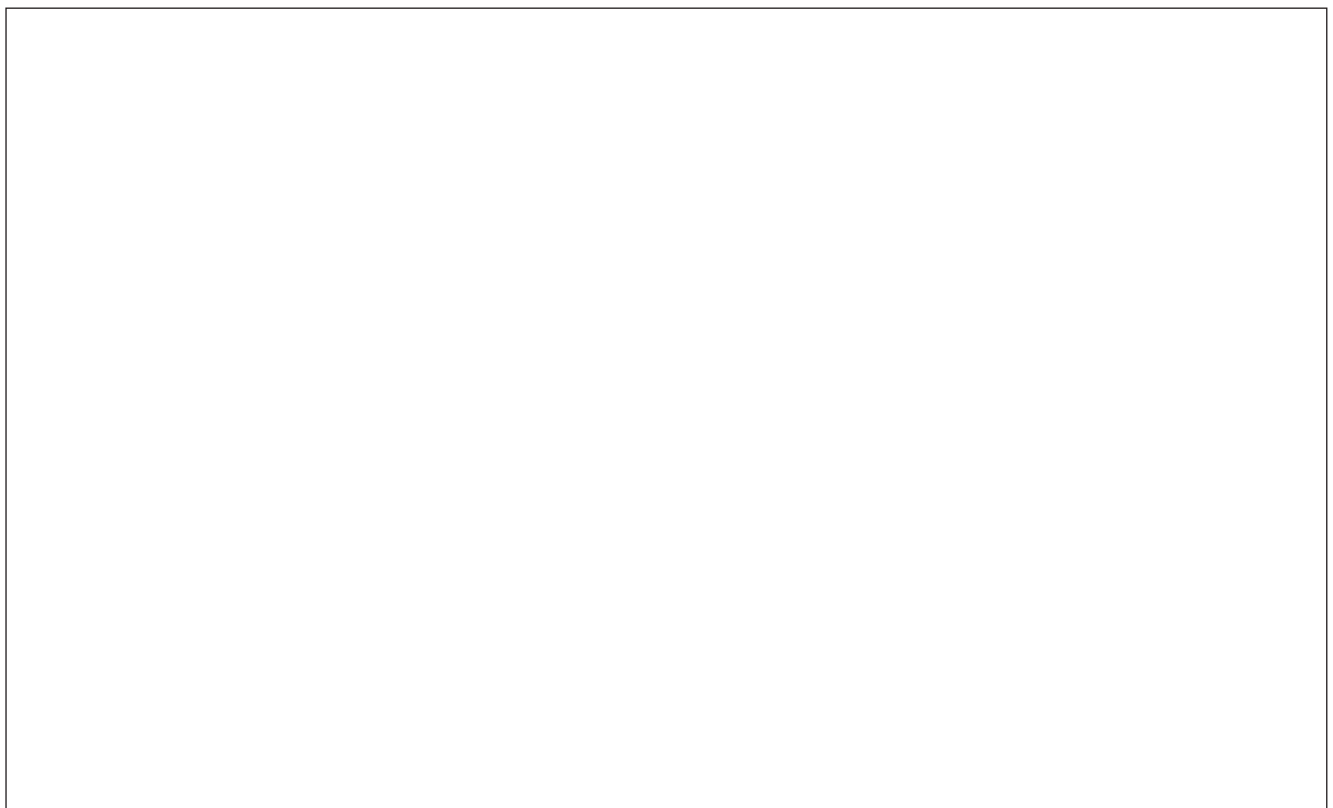
What is the impact of climate change on wildlife?

What are your thoughts and feelings about climate change?

6a. Polar animals include polar bears, emperor penguins, Siberian salamanders, Greenland sharks, emerald rockcod, walrus and Arctic terns. Compare two of these species, recording where they are found, their habitats and what they eat.

| Name of animal | Location found | Habitat | Diet |
|----------------|----------------|---------|------|
| | | | |
| | | | |

6b. Draw a detailed diagram of the two species that you compared. Add labels to identify their key features and adaptations.



7a. Throughout time, there have been many explorations of the polar regions. Use the internet and other source materials to find out about polar explorers and their discoveries. Create a timeline to show significant polar explorations that took place between 1770 and 1920.

7b. Choose one polar explorer that you find inspiring. Find out as much as you can about them and write a short biography about their life, motives for exploration, achievements and discoveries.

Biography about _____

8. This is the 'Unsinkable' RMS *Titanic*. Use online and other historical resources to find out what happened to RMS *Titanic*. Write an account to explain what happened, including how polar features were instrumental in its downfall. Use the useful words provided to help you write your report.

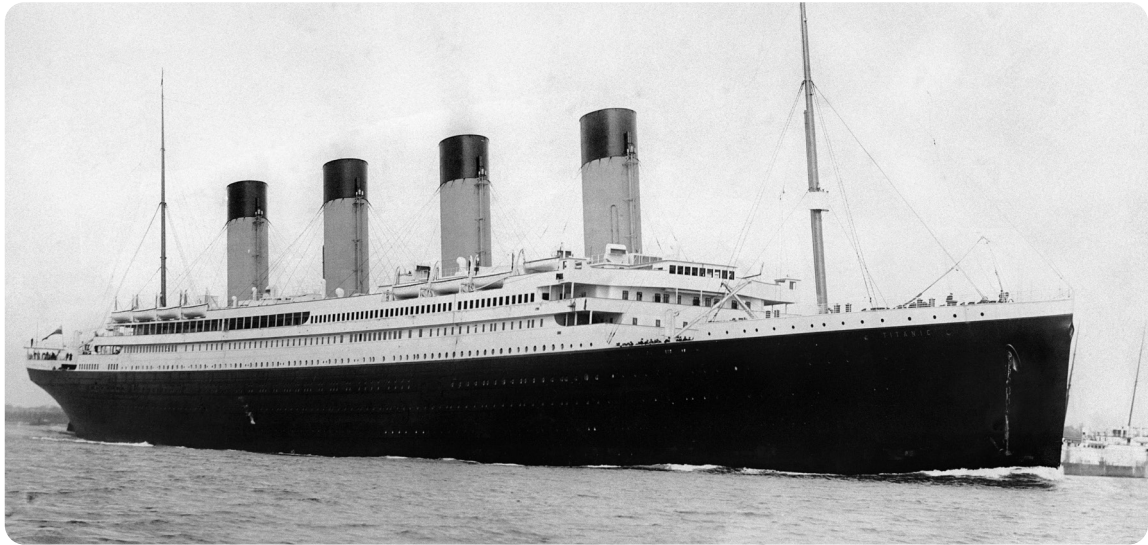


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Useful words

- disaster
- ice
- iceberg
- lifeboats
- maiden
- New York City
- RMS *Titanic*
- Southampton
- voyage

9. Finish your home learning by writing a summary of the topic, explaining what you have learned about the polar regions, including their locations, wildlife, resources, indigenous peoples and threats.

Useful websites

Britannica Kids – Antarctica

Britannica Kids – Arctic Regions

Met Office – Climate zones

National Geographic Kids – What is climate change?

DKfindout! – Polar Exploration – Famous Polar Explorers

Britannica Kids – Polar Exploration

National Geographic Kids – *Titanic* Facts

Good reads

| Title | Author | ISBN |
|-------------------------------------|------------------|---------------|
| Arctic and Antarctic | DK | 9781405394628 |
| Research on the Edge: Polar Regions | Louise Spilsbury | 9780750289900 |
| Polar Climates | Cath Senker | 9781474738422 |
| Ecographics: Climate Change | Izzi Howell | 9781445165714 |
| Polar Explorers for Kids | Maxine Snowden | 9781556525001 |
| Story of the Titanic | DK | 9781409383390 |