

Home learning ideas and topic information Y5/6

Frozen Kingdoms

WHITE ROSE MATHS HOME LEARNING

Your Y5 child can choose from:

Place Value, Addition and Subtraction, Multiplication & Division or Fractions A

<https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-5-new&term=autumn>

Your Y6 child can choose from:

Place Value or Addition, Subtraction, Multiplication & Division.

<https://whiteroseeducation.com/parent-pupil-resources/maths/home-learning?year=year-6-new&term=autumn>



Topic

Frozen Kingdoms

Please see the attached home learning ideas. Our class focus is:

Science: Living things and their Habitats

P.E. Unihoc with Tom, Swimming & Manx Dancing (Mhelliiah, Hop-tu-Naa)

Art & DT: Root Show

History. Describe some of the significant achievements of mankind and explain why they are important - Antarctic Exploration.

Examine the decisions made by significant historical individuals, considering their options and making a summative judgement about their choices (Shackleton)

Geography. Describe the climatic similarities and differences between two regions.

Identify the position and explain the significance of latitude, longitude, equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, the Arctic and Antarctic Circles, the Prime (or Greenwich) Meridian and time zones (including day and night).

Compare and describe physical features of polar landscapes.

RSE: Feeling safe/unsafe, Trusted adults, Bullying, Physical abuse and neglect, sexual abuse

ICT. Combining different media, Searching the internet

R.E. - Torah, Quran & the Bible

WRITING:

- Poetry
- Writing to explain
- Diary/Letter writing

Spelling focus Y6:

Accuracy in High Frequency Words
Homophones (eg. there, their, they're)
Plurals

Common letter strings (eg. -igh, -ought, -ear)

Reading:

Please make sure your child has completed the required home reading each week.

Class Novel:

Kensuke's Kingdom (Whole Class Read)
Clockwork (Class Novel)





Frozen Kingdoms

This project teaches children about the characteristics and features of polar regions, including the North and South Poles, and includes a detailed exploration of the environmental factors that shape and influence them.

Frozen Kingdoms



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 sketch and label a diagram of the Earth. Include the equator, Prime Meridian, lines of latitude and longitude, Tropics of Cancer and Capricorn and the polar regions.
2. Research and record the characteristics of each of the following climate zones: polar, temperate, desert, tropical and equatorial. Give examples of places within each climate zone.
3. Polar landscapes have many interesting natural features, including icebergs, glaciers, mountains, ice fields, tundra and boreal forests. Record a definition and description of each feature in a table.
- 4a. The Arctic is rich in natural resources, including oil, gas, wood, freshwater and hydropower. Draw a 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 following questions.
 - What is global warming?
 - What is climate change?
 - What are four causes of global warming?
 - 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.
- 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.
- 8.** Use online and other historical resources to find out what happened to the RMS *Titanic*. Write an account to explain what happened, including how polar features were instrumental in its downfall.
- 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



Frozen Kingdoms

Name

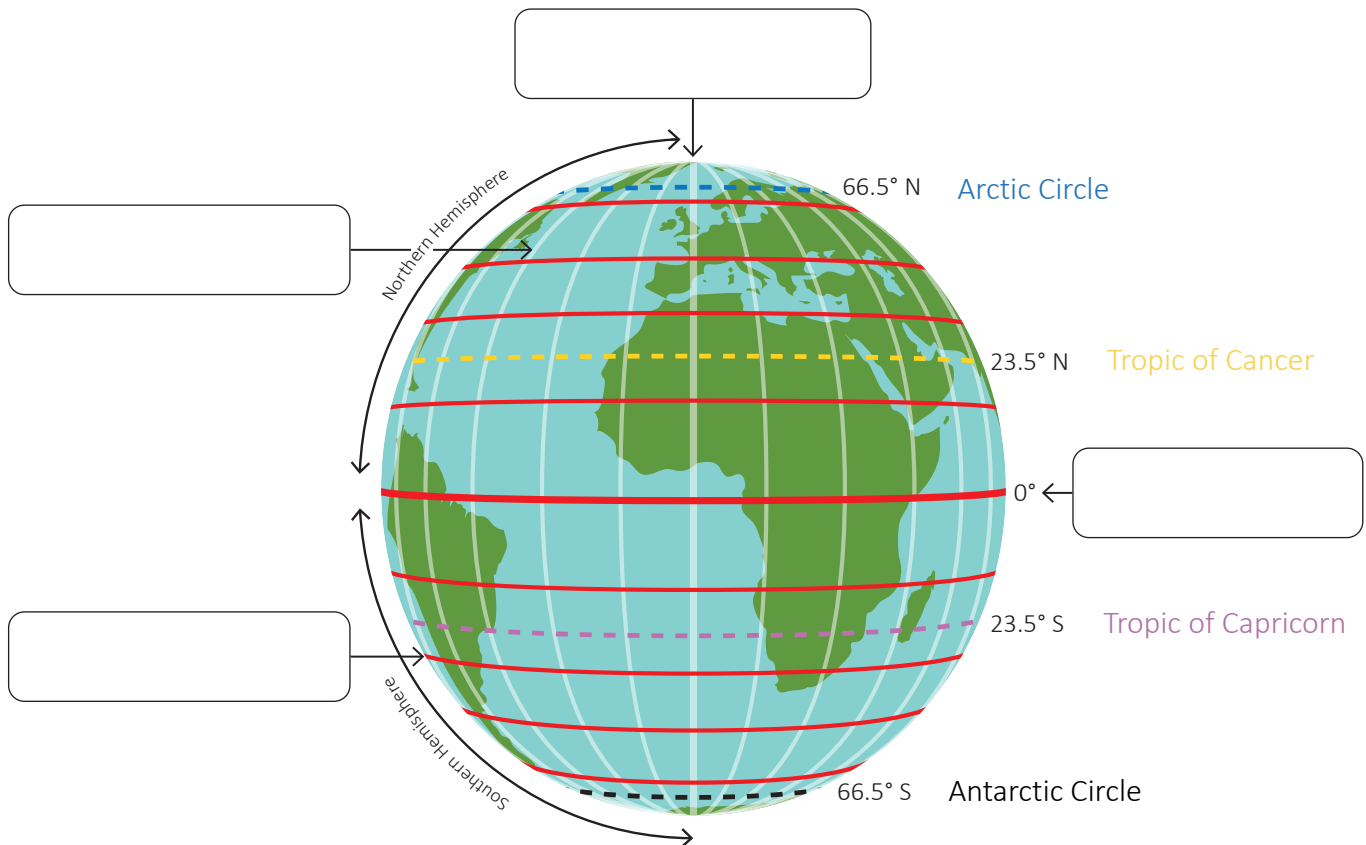




These activities are for you to do at home. You can do all of them or choose the ones that you find most interesting.

Activities

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

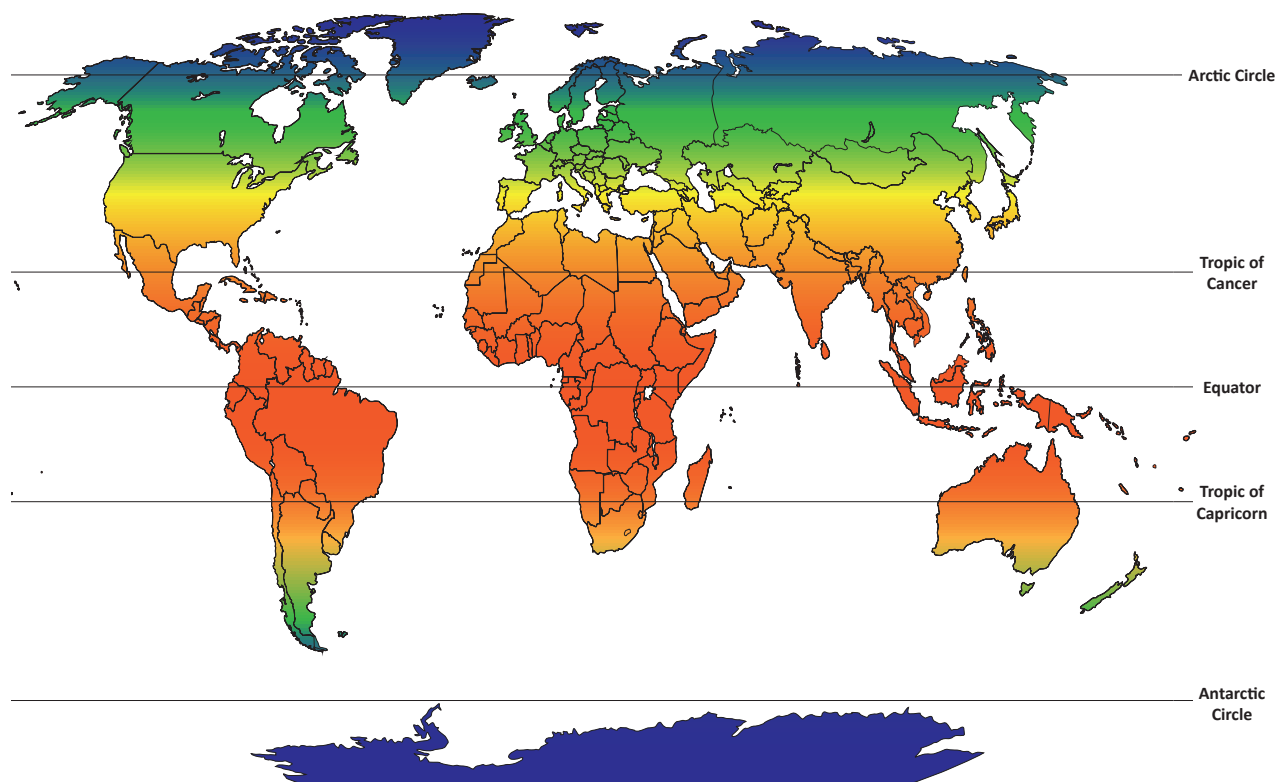


Useful words

- 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.

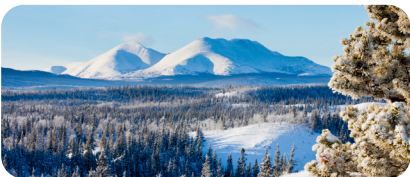
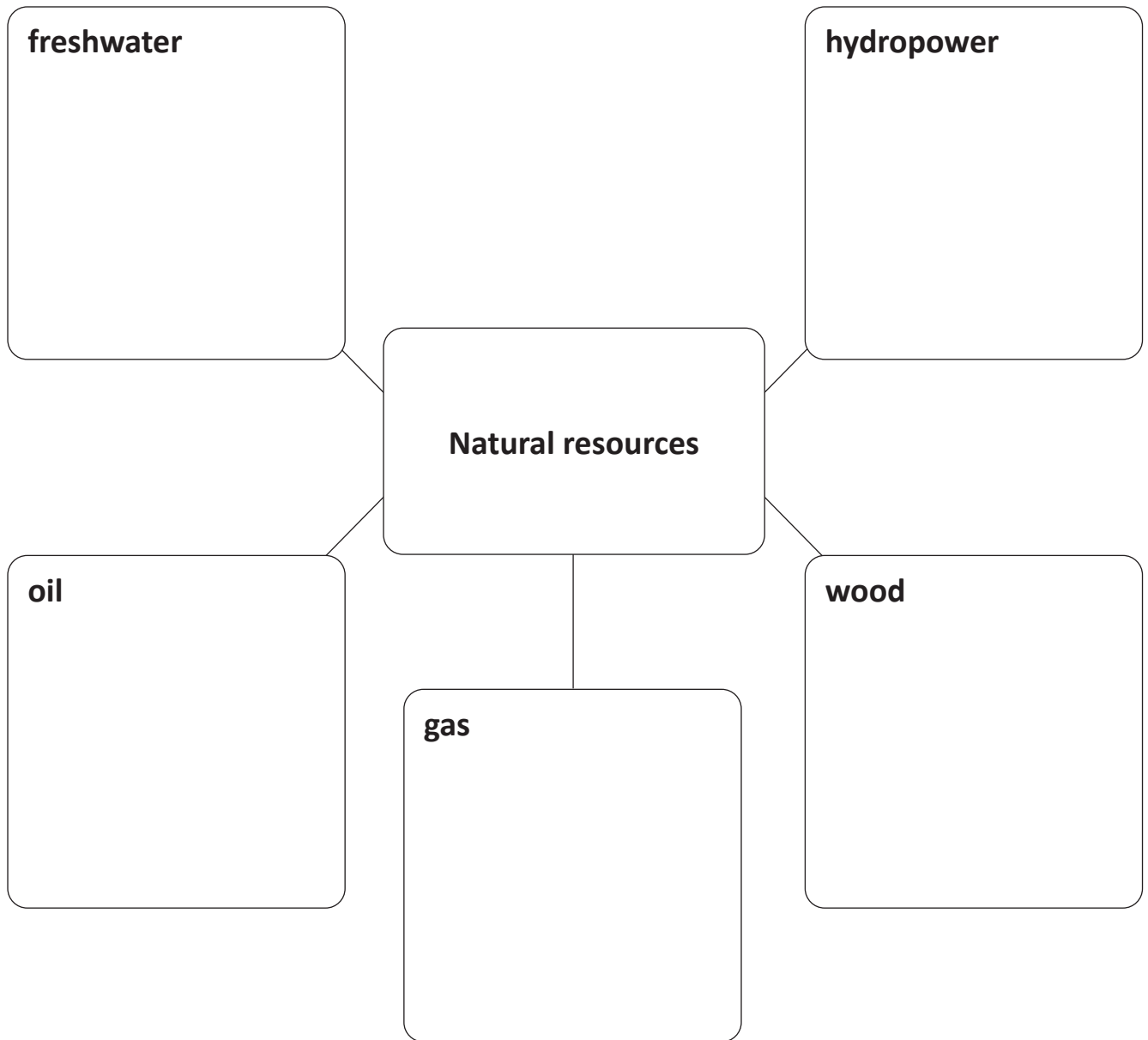
Landscape feature	Definition	Description
Iceberg 		
Glacier 		
Mountain 		
Ice field 		
Tundra 		
Boreal forest 		

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 _____

[illegible]

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.

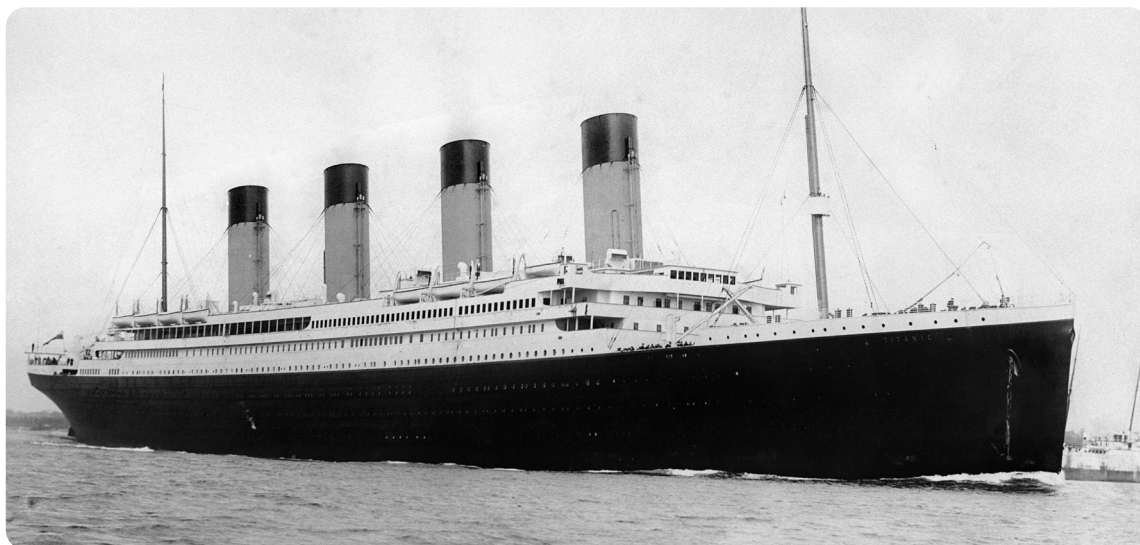


Image from: Wikimedia Commons/Public domain

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

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Britannica Kids – Arctic Regions

Met Office – Climate zones

National Geographic Kids – What is climate change?

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