# **Module Plan: Exploring Shackleton's Antarctica**

Royal Geographical Society with IBG

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**Lesson One: Curious Continents** 

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
Antarctica's place on the Earth and on a map  Human and Physical Geography Physical geography: Antarctica as a polar region,	Polar regions     Understanding     Antarctica's size and composition  Geographical Skills and Fieldwork  Fieldwork	Where is Antarctica? What is Antarctica 'made of'? What time is it at the South Pole?	STARTER: Tune children into the enquiry. Share terms 'Antarctic Circle' and latitude. Elicit pupil's misconceptions explaining that Antarctica is a landmass rather than ice sheet.  What time is it at the South Pole? http://www.timeanddate.com/time/time-zone-antarctica.html 24 hours of sun: Youtube video  MAIN ACTIVITY: Explore the ways this landmass and associated oceans are depicted in a variety of sources. Task – to find the Antarctic Circle in an atlas and identify a physical feature of Antarctica on two different lines of latitude. Use of a simple latitude map (see image links) and also world atlases.  Curiosity Challenge – General research about Antarctica (see web-links). Children to create a poster 'What we already know' and 'What we would like to find out' display linked to unit (show in plenary).  PLENARY: Complete a 'What we already know' and 'What we would like to find out' display linked to unit. (Link to assessment) Introduce all children to the web-link and set homework	Interactive: http://ngm.nationalgeographic.com/ngm/antarctica/ (Physical geography – interactive using keys)  Downloads: Curious Continents (PPT) Factsheet PDF   MSWORD  Links: (General introduction to Antarctica)  • http://www.worldatlas.com/webimage/countrys/an.htm • http://www.mapsofworld.com/lat_long/antarctica-lat-long.html • http://www.discoveringantarctica.org.uk/ • http://classroom.antarctica.gov.au/exploring/mapping  Video: 24 Hours of Sun: http://www.youtube.com/watch?v=2nc6nhtaEt4  Assessment opportunities  Using the 'What we already know' questions, create a 'base-line' of understanding showing progression by the end of the unit
seasonal/geograph ical variations in time, different forms of land and terrain			tasks linked to what they want to find out.	

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**Lesson Two: Fascinating Imagery** 

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
	Ice types and fauna	Who found Antarctica and when?  Which explorer got to the South Pole first?  Why is Sir Ernest Shackleton an important 'Antarctic' historical figure?  What would the crew of	STARTER: Introduce 'explorer' element of this unit. Race to the South Pole. Shackleton's Endurance Expedition (100 years ago). Share advert and book trailer for drama (see downloads) and overview  What would the crew have seen along their route? (Elicit misconceptions at this stage).  MAIN ACTIVITY: Map and plot the 'Race to the Pole' coordinates (see activity: Unlocking the Archives). Map and plot the route of the Endurance expedition (see map and timeline)  PLENARY: Children explore the work of Frank Hurley (expedition photographer). Pupils take on his role and imagine what he would see through the camera lens along this journey.	Interactive: http://archive.secondstory.com/project/the- endurance Downloads: Factsheet PDF   MSWORD Life of Shackleton PDF   MSWORD Shackleton Timeline and Overview PDF   MSWORD Endurance Expedition Crew PDF   MSWORD Images of Shackleton PPT Shackleton's Advert PDF   MSWORD Example of Pupils' Work PPT Images: Flickr 'Creative Commons' search 'Frank Hurley' (use of images for educational use) Video: Shackleton's Endurance expedition trailer: http://www.youtube.com/watch?v=2QrNlbcz7XE Endurance Trailer: http://www.youtube.com/watch?v=p5tEgFtOaSw
Human and Physical Geography Visual Identification of features of Antarctic geomorphology	Geographical Skills and Fieldwork Longitude and Latitude; visual understanding of Polar Landscapes	Shackleton's expedition have seen along their route?	Poster check and working wall activity.	Assessment opportunities  Link back to posters – what have they learnt? Add information to posters (post it notes) and/or create a working wall.

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**Lesson Three: Perplexing Poles** 

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
	Antarctica and its specific physical	What does 'Antarctica'	STARTER: Children use a variety of mapping	Interactive: Antarctica's seasons:
	geography	mean?	sources, locating the north and	http://www.divediscover.whoi.edu/ecosystem/infomod.html
		What are the	south poles – explaining the term 'ant-arctic.'	Downloads:
		seasons on this	ant-arctic.	Antarctica Expedition Proposal PDF   MSWORD
		continent?	Investigate the seasons on Antarctica – see interactive link	Antarctica Expedition Proposal Answer Sheet PDF   MSWORD
		What is life like		Factsheet PDF   MSWORD
		at the Poles?	MAIN ACTIVITY: Outline this lesson's aim on creating	
		What time of year would you plan your	a 'fact book' focusing on locating information linked to physical features of the continent. Share with	Links: See lesson plans
		expedition?	pupils a range of on-line sources of	Video: Secret Life of Ice (BBC)
			information, using blogs and modern day expeditions to research	http://www.bbc.co.uk/programmes/b016fpyy
			information (also use links from previous lessons).	Climate maps to establish hot and cold areas across the globe
Human and	Geographical			Assessment opportunities
Physical Geography	Skills and Fieldwork		Using the explorer's accounts shared to consider physical	
Physical: hot	Map skills - Using		geography at the South Pole e.g.	Linked to plenary (see Factsheet).
and cold climate	different		time zones at the Pole in addition to	
zones and the influence of the	secondary data sources for		mountain ranges, volcanoes and the ever changing ice mass and glaciers	
earth's orbit on	geographical		throughout the seasons.	
climate zones	investigation			
			PLENARY:	
			Challenge/consolidation/assessment activity asks pupils to decide what	
			time of year they would plan their	
			expedition and submit an 'expedition application'	

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Lesson Four: Shaping of the World

Locational Knowledge	Place Knowledge	Key questions and	Teaching and learning	Resources
3		ideas	activities	
Knowledge of route taking by Endurance expedition		What was the planned journey of the Endurance expedition? What journey did they actually do to survive?	STARTER: Recap on Shackleton's Endurance Expedition from Lesson 2. Explain how the expedition did not follow the planned route due to the ship (Endurance) getting stuck in the Weddell Sea's pack ice.  MAIN ACTIVITY: Children plot and role play the journey of the expedition timeline using links to mapping work and lines of latitude learnt. Pupils to also give consideration to all elements of the expedition, for example, The Ross Sea Party (the food depot ship).  Through discussion, consider the reasons why these routes were chosen.	Pownloads: Factsheet PDF   MSWORD   Images of Endurance Expedition PPT   Antarctica Map PDF   MSWORD   Shackleton Endurance Expedition   Timeline and Historical Overview   PDF   MSWORD   Images: Table Top Maps    Video: Re-enactment via Shackleton Epic   James Caird Boat Journey voyage:   http://www.discoveryuk.com/web/shack   leton-death-or-glory/videos/
Human and Physical Geography	Geographical Skills and Fieldwork		PLENARY: Share and perform drama pieces,	Assessment opportunities
Physical: Antarctica's mountainous terrain, oceans and their effects and influences upon the expedition	<ul> <li>Classifications &amp; keys</li> <li>Mapping, graphing and data presentation</li> <li>Four and six-figure grid references</li> </ul>		in the order of the timeline. These performances can then be 'fine-tuned' to show in an assembly or as part of 'Antarctica day'.	

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Lesson five: Living and learning on the ice

Locational Knowledge	Place Knowledge	Key questions and ideas	Teaching and learning activities	Resources
		Do people live on Antarctica? What is daily life like on Antarctica?	STARTER: Post questions for lesson and share ideas and links (research stations, penguin post office, and tourism).  MAIN ACTIVITY: Using role play, pupils can appreciate a day in the life of an Antarctica research station.	Downloads: Factsheet PDF   MSWORD Example of Pupils' Work PPT Postcard Template PDF   MSWORD
Human and Physical Geography	Geographical Skills and Fieldwork		Via the use of a variety of existing research centres, pupils map and locate their role play station on Antarctica. Use of teacher	Assessment opportunities
Physical: Antarctica's mountainous terrain, oceans and their effects and influences upon the expedition	Mapping skills combined with grid references		questioning and wider research by pupils, encourages discussions regarding this fragile environment, different time zones and daylight hours at the poles and how the tilt of the Earth affects this.  Create role play areas based on research regarding 'life on Antarctica'.	Physical/human links
			PLENARY: Visit each role play area and provide feedback on choice of location within Antarctica	

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Lesson Six: Antarctica Day

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#### **Links Summary**

#### DVDs:

The Endurance (cert PG) DVD – Liam Neeson narrates this docu-drama about Sir Ernest Shackleton's ill-fated Antarctic expedition – which uses contemporary footage alongside the real footage of the expedition taken by cameraman Frank Hurley.

Shackleton (cert 15 – requires editing for KS2) DVD – Setting out in 1914, Shackleton (Kenneth Branagh) and his crew set sail for Antarctica, but get into trouble when their ship, the Endurance, becomes stuck in pack ice. Abandoning the doomed vessel, Shackleton then takes the only course of action available, and sets out on foot, determined to lead his ailing crew to safety.

#### Books:

**Shackleton's Journey by William Grill:** Shackleton's Journey is a unique visual re-telling Ernest Shackleton's landmark expedition crossing the Antarctic from one pole to the other. William Grill's impeccably researched and informative illustrations celebrate the 100th anniversary since the historic exploration by Shackleton and his crew on Endurance. Children will love exploring Grill's exploded diagrams and the fascinating details of this landmark voyage.

Mrs Chippy's Diary by Caroline Alexander: This is the (fictional) journal of Mrs Chippy, the cat who accompanied the carpenter Harry "Chippy" McNeish on the Shackleton's Endurance expedition in 1914.

Avoid Joining Shackleton's Polar Expedition! (Danger Zone) by Jen Green: An account of Shackleton's Endurance Expedition presented in cartoon format. This book charts the events of the Endurance expedition and describes the ways in which Shackleton's polar team dealt with extreme cold, strong icy winds and the lack of food and water. The illustrations and text provide an insight into the conditions experienced by the explorers on this epic journey.

#### Web Links:

- Discovering Antarctica http://www.discoveringantarctica.org.uk/
- <a href="https://discoveringantarctica.org.uk/?page\_id=67">https://discoveringantarctica.org.uk/?page\_id=67</a> Race to the Pole- Journey South RGS-IBG Antarctica Unit www.unlockingthearchives.rgs.org/themes/antarctica/
- Interactive overview linked to expedition photographer Frank Hurley <a href="http://archive.secondstory.com/project/the-endurance">http://archive.secondstory.com/project/the-endurance</a>
- The Secret Life of Ice (BBC documentary) http://www.bbc.co.uk/programmes/b016fpyy
- Cool Antarctica: Fact files and information about everything 'Antarctica' http://www.coolantarctica.com/index.html
- Endurance Obituaries http://www.enduranceobituaries.co.uk/
- Case study examples of Antarctica and Shackleton topic work in primary schools www.shackletoninschools.com

### **Modern Day Antarctic Explorers:**

Shackleton Epic - Centenary re-enactment of 'James Caird' boat journey www.shackletonepic.com The Coldest Journey http://www.thecoldestjourney.org/

### **Future Expedition Links:**

From Fire to Ice <a href="http://fromfiretoice.org/">http://fromfiretoice.org/</a>

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### Field trips suggestions:

- Visit the James Caird Dulwich College, Dulwich, London <a href="http://www.dulwich.org.uk/college/about/history/the-james-caird">http://www.dulwich.org.uk/college/about/history/the-james-caird</a>
- Falmouth Maritime Museum (Falmouth, Cornwall) holds Hussey's Banjo http://www.nmmc.co.uk/index.php?/collections/featured\_objects/leonard\_husseys\_banjo
- Shackleton Museum (Athy, Ireland) <a href="http://www.shackletonmuseum.com/">http://www.shackletonmuseum.com/</a>

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