

Half-termly planning overview Year 6 – Spring Term 1

Enquiry question: How are we connected to Antarctica?

Harmony principle: The principle of Interdependence

Sustainability action: Monitoring energy use to save money and reduce CO2

Great Work: 'We are Antarctica' poetry and posters; ice sculptures

Partners in learning: Reboot the Future; British Antarctic Survey; 2041 Foundation



Weekly Questions

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	Where is Antarctica and what is it like?	How are we changing the environment in Antarctica?	How are penguins adapted to survive in Antarctica?	What can we do to reduce our negative impact on Antarctica?	How will we celebrate the beauty of Antarctica?	How can we convey to others that Antarctica needs protecting?
GEOMETRY	What are the proportions of an iceberg above and below water? (1)	What are the proportions of an iceberg above and below water? (2)	How can the Fibonacci spiral help me draw krill? (1)	How can the Fibonacci spiral help me draw krill? (2)	How can I create a six-pointed snowflake design? (1)	How can I create a six-pointed snowflake design? (2)
SCIENCE	What happens when an iceberg melts? (observing ice cubes in salt water)	How are living things in Antarctica interdependent? (food webs)	How do penguins work together to survive?	How does electricity flow through a circuit? (scientific circuit diagrams)	How does the voltage of a circuit affect the brightness in a lamp?	What question about electricity do I want to investigate?
ENGLISH	What can I learn about Antarctica from Shivi's diary?	How did Shivi's expedition to Antarctica differ from Shackleton's?	What information will I include in a documentary voiceover about penguins?	How can I ensure my documentary voiceover has a positive impact?	How will I use my voice to ensure the meaning of a poem is clear?	What techniques can I use in a poetry performance to convey emotion?
GPS FOCUS	What descriptive devices help create mood and atmosphere?	How can I use a dash for emphasis and to add extra information?	How can I use cohesive devices to ensure my writing flows?	What effect on the reader do different word choices have?	How can I use punctuation as clues to help me read a poem aloud with expression?	How can I use hyphens to develop descriptive words and phrases?
MATHS	How has the surface temperature in Antarctica changed over time?	What does data tell us about melting ice and rising sea levels?	How can I solve and create number problems involving penguins?	What does our energy use cost? How can data help us to reduce energy use?	What can I find out about our use of energy in school and what we can do to reduce it?	How will we measure our progress towards meeting our energy reduction targets?
ART & DESIGN	How will I use Matisse's technique of paper 'cut outs' to create an Antarctic composition?	What different media will I use to create an artwork depicting <i>The Endurance</i> ?	How can I represent an emperor penguin pair in an artwork? (1)	How can I represent an emperor penguin pair in an artwork? (2)	What features of famous posters are effective in engaging an audience?	What features will I include in a poster promoting the protection of Antarctica?
COMPUTING	What can I find out about the Antarctic continent online?	How can I present data on rising sea levels?	How will I research a penguin documentary voiceover online?	How can I use technology to record my voiceover?	What images will work most effectively with my voiceover?	What criteria will we use to evaluate each other's projects?
PE (DANCE)	How can we move as if underwater?	What shapes and movements can we create in groups to represent icebergs?	How can we recreate the movement of a penguin and penguin huddles?	What symmetrical shapes can we recreate in pairs?	How can we combine movements to tell the story of Antarctica?	How can we work in groups to perform an Antarctic dance?
GEOGRAPHY	Why is Antarctica called a desert? What are the features of its climate?	What are the time zones in Antarctica? How many hours of daylight are there at different times of year?	What are scientists from the British Antarctic Survey exploring in Antarctica today? Why?	How can I use a map to show how the Antarctic landscape has changed over time?	What human and physical features will I include in a scale map of Antarctica?	What is the Antarctic Treaty and why should we support it?
MUSIC	What instruments can I use to represent elements of Antarctica?	How will we work together to create a group composition inspired by Antarctica?	How can we use musical notation to record our composition?	What do we need to adapt to improve our composition?	What will help us perform our composition with precision and confidence?	How can we evaluate the effectiveness of our composition and the compositions of others?
PSHE	What would make me a great team member on an Antarctic expedition?	What do I rely on others for?	What do I do for others?	How do members of a team rely on each other?	How can I communicate my needs to others?	How can I show compassion to others?
OUTDOOR LEARNING	Outdoor reflections on what it feels like to experience cold	Team-building challenges: bench balance tasks	Team-building challenges: penguin huddles	Team-building challenges: blindfold tasks	Creating snowflake designs using natural materials	Team building challenges: knots and hoops