

Half-termly planning overview Year 6 – Spring Term 1



Enquiry question: Is Antarctica worth protecting?

Harmony principle: The principle of Interdependence

Great Work: Antarctica exhibition and ice sculptures

Partners in learning: British Antarctic Survey, 2041 Foundation, ice sculptor

Sustainability theme: Using energy responsibly, tackling climate change



Weekly Questions

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
	How are penguins adapted to life in Antarctica?	How do penguins survive in the cold?	What is the geometry of a snowflake?	What can I learn about icebergs?	How does the Antarctic ecosystem work?	Is Antarctica worth protecting? Why or why not?
GEOMETRY	What is the shape and colouring of a penguin? Why?	How can I draw the symmetry of a penguin couple facing one another?	How can I draw a hexagonal snowflake?	What are the proportions of an iceberg above and below water?	What are the proportions of leopard seals and minke whales?	What geometry learning could we use to create an Antarctica logo?
SCIENCE	Which materials change state when they are cooled? How can this change be reversed?	How accurately can I measure temperature change as ice melts or water cools?	How will I plan and carry out an investigation to find out which materials are the best insulators?	How will I interpret and present the results of my insulation investigation?	What living things will I include in an Antarctic food web? How are they interdependent?	What is the effect of rising temperatures on ice in the Antarctic and on the Antarctic ecosystem?
ENGLISH	How can I best describe the movements and behaviours of penguins?	What will I include in a voiceover for David Attenborough's <i>Dynasties</i> ? (penguins)	What can I learn about Shackleton's journey to Antarctica from his diary?	What will I include in the diary of one of Shackleton's crew?	How can I create a balanced argument for the protection of Antarctica?	How can I present an argument in a debate about the protection of Antarctica?
GPS FOCUS	Which verbs and adverbs best describe the movements and behaviour of penguins?	How can verbs and adverbs make a documentary voiceover interesting?	What effect does the use of the passive have?	How can I use a semi-colon between independent clauses?	How can modal verbs help construct an argument?	How can I use cohesive devices effectively in a debate?
MATHS	What are the maximum and minimum temperatures in Antarctica?	What does data tell us about melting ice and rising sea levels?	What can I find out about our use of energy in school?	How can data help us to reduce our energy use in school?	Have we managed to reduce energy use in school? What does the data tell us?	What do graphs tell us about rising global temperatures?
GEOGRAPHY	Why is the Antarctic called a desert? What are the features of its climate?	What are the time zones in Antarctica? What are the daylight hours at different times of the year?	What physical features will I include in a scale map of Antarctica?	How will I plot Shackleton's journey to Antarctica and within Antarctica on a map?	What are scientists exploring in Antarctica today? Why?	What is the Antarctic Treaty? What would I include in a new treaty to protect Antarctica?
ART & DESIGN	How can I use shading most effectively to draw penguins?	How can I draw penguins using a range of media?	What will make my snowflake designs particularly unique and eye-catching?	How can I use white and blue oil pastels to recreate icebergs?	How can we work together to paint life-size leopard seals or minke whales?	How can I create an Antarctic poster celebrating life on this frozen continent?
IT & COMPUTING	What can I find out about the Antarctic continent online?	What can I find out about penguins online?	How can I use technology to record my voiceover?	How can I use audio editing software to edit my voiceover?	What images will work most effectively with my voiceover?	What criteria will we use to evaluate each other's projects?
PE	Dance: What is it like to move around with our arms by our side like penguins?	Dance: How can we recreate the movement of penguin huddles?	Dance: What symmetrical snowflake shapes can we create in groups?	Dance: How can we show water freezing and ice melting through dance?	Dance: How can we move as if underwater?	Dance: How can we work in groups to perform an Antarctic dance?
PSHE	What do I rely on others for?	What do I do for others?	How do members of a team rely on each other?	What does effective teamwork look like?	How can I communicate my needs to others?	How can I show empathy to others?
NOTES	Watch David Attenborough's <i>'Dynasties'</i> (penguins)	Make flippers and beaks to recreate penguin huddles	Create snowflake displays	Winter walk to capture a sense of the cold for writing task	Life-size leopard seal and minke whale artwork	GREAT WORK Antarctica exhibition and ice sculptures