

5. Weather and Space

Explore a folktale about thunder and lightning, and learn about weather lore. Explore the Earth, Sun, Moon and stars. Learn about staying safe in the sun and investigate why we need sun cream. Look at the Sahara Desert, and how animals are adapted to live there.

Notes

Teachers could organise a field trip to the Birr Castle Science Centre or the Armagh Observatory & Planetarium.

Materials		Books
GlobeTorchSun cream	Dark-coloured cardThermometer	 The Solar System (Usborne Beginners) by Emily Bone, Terry Pastor, et al. National Geographic Little Kids First Big Book of Space by Catherine D. Hughes, David Aguilar, et al. National Geographic Readers: L2: Night Sky

Useful Links

History

1. www.almanac.com/content/weather-sayings-and-their-meanings 2. www.rte.ie/weather

Geography

1. www.armaghplanet.com 2. www.dkfindout.com/uk/space 3. www.weatherforkids.org

YouTube: Apollo 11 - The First Moon Walk by National Geographic Kids

YouTube: The Best Photos of Earth Taken from Space | Chris Hadfield by Big Think

Science

www.activewild.com/sahara-desert-facts-for-kids

Key Vocabulary						
History		Geography		Science		
origins thunder lightning ram ladybirds	seagulls ancestors predicted weather sayings	solar system planet Earth spins the Sun seasons stars	the Moon the Plough Orion constellations astronauts rocket	UV rays burning sun cream protect sunglasses shade	thermometer Sahara Desert temperature	

Integration	Home/Parental Involvement
Language: A digital poster Extreme Environments is available as part of Folens Starlight oral language programme for 2nd Class (Unit 12). Visual Arts: Create a night sky constellations display. Music: Listen and respond to the storm from Vivaldi's Four Seasons or Chris Hadfield singing 'Space Oddity'.	Watch the weather forecast. Discuss sun safety and model safe practices in the sun. Help your child to identify star constellations in the sky.

Theme Overview

- **D** indicates an *Explorers* Digital Resource on FolensOnline.
- indicates an *Explorers* Print Resource in the *Explorers* Student Book.

LESSON 1		LESSON 2	LESSON 3
	Focus: Chronology of a story	Focus: Predicting the weather long ago	Focus: Weather prediction today
HISTORY	P The Origins of Thunder and Lightning p. 36 Read the folktale about Thunder and Lightning. Answer the questions. Discuss experiences of actual thunder storms and compare with the folktale description. D The Origins of Thunder and Lightning: Questions Click the numbered buttons to answer questions about the folktale.	P What do old sayings tell us? p. 37 Read weather sayings and discuss possible meanings. Discuss their accuracy. Match meanings to sayings. Children ask an older person for any weather lore they know.	Discuss weather lore collected from older people at home. Try to work out their meanings. Choose a saying, write its meaning and illustrate it. Discuss how we know what the weather will be like today. Watch the RTÉ weather forecast (see Useful Links).
	Focus: How the Sun gives us day and night	Focus: The Sun and the stars	Focus: Earth's Moon
GEOGRAPHY	p. 38 Show a globe. Highlight the blue areas. Discuss the significance of water to life on Earth. Read the passage <i>The Earth</i> . Use a torch (as the Sun) and a globe to show that where the Sun shines it is daytime, and on the opposite side of Earth it is night-time. Complete the cloze activity to review understanding.	Discuss what children know about the Sun and stars. P Explore: Our Solar System pp. 38–39 Read the passage The Sun. Answer the questions. Then read Stars. Decide whether each statement is true or false. D Constellations: Flashcards Explore the constellations. Discuss what each one looks like, before flipping the flashcard to learn more.	Discuss what children know about Earth's Moon. P Explore: Our Solar System p. 39 Read Earth's Moon. Watch Apollo 11 – The First Moon Walk (see Useful Links). Research and create a display, Report or presentation on the first Moon landing. Draw and name a space rocket to take your class to the Moon.
	Focus: How does sun cream work?	Focus: Staying safe in the sun	Focus: The Sahara Desert
SCIENCE	Discuss how the Sun gives us the heat and light we need. P How do I stay safe in the sun? p. 40 Read about staying safe in the sun. P Investigate: Why do I need sun cream? p. 40 Follow the steps to investigate how sun cream blocks UV rays. Record what happens.	D Sun Safety: Sort Look at each picture. Decide whether or not it shows sun safety. Plan and design a poster promoting sun safety. Use a thermometer to take the temperature in the classroom in direct sunlight and in the shade. Compare findings.	P How hot is the Sahara Desert? p. 41 Investigate and record the average temperature in the Sahara Desert. Record the temperature in the classroom. Compare the two. Discuss examples of how animals adapt to their environment. Match each animal to its descriptions. Discuss: How do they remain cool? How do people stay cool?

Curriculum Information				
History				
Strand and Strand Unit	Skills			
Listen to, discuss, retell and record a range of myths and legends from different cultural, ethnic and religious backgrounds in Ireland and other countries Distinguish between fictional accounts in stories, myths and legends and real people and events in the past Discuss chronology of events in a story Discuss the actions and feelings of characters	Working as a historian ☑ Time and chronology ☑ Change and continuity ☑ Cause and effect ☑ Using evidence ☑ Synthesis and communication ☑ Empathy			
Geography				
Strand and Strand Unit	Skills			
 Natural environments: Planet Earth in space Recognise the Sun as a source of heat and light Identify the Sun, the Moon, stars, day and night Develop familiarity with the spherical nature of the Earth 	A sense of place and space ☑ A sense of place ☑ A sense of space Maps, globes and graphical skills ☑ Using pictures, maps and globes Geographical investigation skills ☑ Questioning ☑ Observing ☐ Predicting ☑ Investigating and experimenting ☐ Estimating and measuring ☑ Analysing ☑ Recording and communicating			
Science				
Strand and Strand Unit	Skills			
 Energy and forces: Light Recognise that the Sun gives us heat and light, without which we could not survive Become aware of the dangers of looking directly at the Sun Recognise that light comes from different sources Energy and forces: Heat Measure and compare temperatures in different places in the classroom, school and environment 	Working scientifically ☑ Questioning ☑ Observing ☐ Predicting ☑ Investigating and experimenting ☑ Estimating and measuring ☑ Analysing ☑ Recording and communicating Designing and making ☐ Exploring ☐ Planning ☑ Making ☐ Evaluating			