# Geography Year 10: The Living World – Cold Environments

#### **Assessment Opportunities**

During each topic students complete a mid-unit knowledge test based on the unit knowledge covered. Students also complete an end-of unit assessment which includes key vocabulary, knowledge questions, geographical and extend writing.

During the year, students complete a mid-year and end-of year assessment which assesses students on all content covered.

### **Literacy/Reading opportunities**

Tier 2 vocabulary is identified on page 2/3 of this SOL in the key knowledge list and is shown in *italics*.

Tier 3 vocabulary is identified on page 2/3 of this SOL in the key knowledge list and is shown in **bold**.

Reading opportunities take place regularly throughout all Geography schemes of learning.

Extended writing opportunities take place regularly throughout all Geography schemes of learning. This is identified within this SOL (highlighted in yellow).

#### **CEIAG Links**

Use of satellite images.
Use of different forms of maps and mapping tools.

Links to environmental management made throughout topic – how do we conserve cold environments?

Environment and agriculture Science/ conservation/ Engineering/ global governance

## Curriculum vision:

"Our aim is to deliver a curriculum that is inclusive, relevant and progressive for all learners."

















# **UNIT TITLE: Cold Environments**

1) Characteristics of cold environments 2) Adaptations in cold environments 3) Adaptations/issues related to biodiversity 4) Opportunities in Alaska 5) Challenges in Alaska 5) Challenges in Alaska 6) Challenges in Alaska 8) Coportunities vs. challenges 7) Diagnostic/therapies 8) Economic development in Alaska 9) Managing economic development in Alaska 10) Assessment snapshot  Skills Coverage AM2 – Recognise and describe distributions and patterns of both human and physical features AM4 – analyse the inter-relationship between physical and human factors on maps and establish associations between observed patterns on thematic maps P3 – use and interpret ground, aerial and satellite photographs P4 – describe physical landscapes from photographs P6 – label and annotate diagrams, maps, graphs, sketches and photographs Q1 - Use quantitative data to communicate geographical information: maps  Notes •  Knowledge Stands/Links to Previous Learning Changing weather and climate: • 7.5 The Arctic – Factors affecting the distribution of ecosystems (latitude and latitude). • 8.4 Is the world becoming drier? – How Hadley cells, rain shadow and prevailing winds influence climate Global Ecosystems • 7.5 The Arctic – The components of ecosystems, distribution of major world ecosystems • 8.4 Is the world becoming drier? – How Hadley cells, rain shadow and prevailing winds influence climate Global Economic Development • 8.3 Why are all countries not equally developed? Overview of climatic factors leading to lower levels of development	Estimated Lasson Proakdown	Accoccmont		
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Specification Content   Teaching List - Key words in bold				
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Tier 2 words in Bold/italics

The physical characteristics of cold	0	The distribution of hot deserts
environments.	0	The key <i>characteristics</i> of <b>Tundra</b> and polar climates (temperature, rainfall)
The interdependence of climate, water, soils, plants, animals and people.		The <i>challenges</i> for survival in cold environments: temperature, lack of rainfall.
solis, piants, animais and people.	0	The <i>adaptation</i> of animals in cold environments: Polar
How plants and animals adapt to the		bears, arctic fox, arctic hare.
physical conditions.	0	The adaptation of plants in cold environments: Tufted
priyologi corraitions.		saxifrage, arctic moss.
Issues related to biodiversity.		3,
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A case study of a hot desert to illustrate:	0	Development opportunities in Alaska, including
		mineral extraction, energy, fishing and tourism.
development opportunities in cold	0	Challenges within Alaska: natural resource distribution,
environments: mineral extraction,		Trans-Alaskan pipeline, extreme temperatures, provision
energy, farming, tourism		of buildings and infrastructure.
challenges of developing cold		
environments: extreme temperatures,		
water supply, inaccessibility.		
Reasons why cold environments are at	0	Overview of the value of cold environments as
risk from economic exploitation.		wilderness areas and why these fragile environments
		should be protected.
Strategies used to balance the needs of		Strategies to reduce the impacts of economic
economic development and conservation		development in cold environments including use of
in cold environments.		technology, role of governments, international
		agreements and conservation groups.