

Starter: animal sounds

Look at the clip being played:

discoveringantarctica.org.uk/ecosystems-and-foodwebs/beneath-the-waves/

Write down a description of this Antarctic animal.

Think about how it manages to live in this harsh environment.

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Animal adaptations:

What is an adaptation?

Adaptation is the process by which an animal or plant species becomes better suited to its environment.



www.youtube.com/watch?v=AGFTmTedqoQ

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How have these animals adapted?



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Animal adaptations - your design

Design your own animal to live in the Antarctic.

1. Include up to five different features.
2. Draw your animal.
3. Annotate it.
4. Describe your features and explain how they help the animal to survive in Antarctica.

Remember to:

1. Use connectives to explain how each adaptation ensures survival in Antarctica.
2. Try to support with specific facts.
3. Underline any key terms used.

Fact box:

- Average temperature is between -10 and -30 °C.
- The blubber on Weddell seals can be 12 cm thick!
- Ice fish have anti-freeze in their blood.
- Penguins can swim up to 40 mph!
- Penguins can also propel themselves 7 feet out of the water.
- Wind can reach up to 200mph.
- 90% of Antarctica is covered in ice.
- Sea temperature is -1.6 °C.

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What score would you give these statements?

- a. My animal has a thick coat.
- b. My animal has a thick coat to protect from the cold.
- c. My animal has a thick coat to protect from the extremely cold temperatures (-75 °C) and the 140 mph winds.
- d. My animal has a thick fur coat to insulate it from the -75 °C winter temperatures and the hurricane force winds that can reach speeds of 140 mph.

Score	Descriptor
1	I can describe in detail what my species looks like. I can give appropriate adaptations to the climate.
2	I can explain my adaptations using short sentences, e.g. a thick coat to stay warm. I use at least three key words, e.g. predator.
3	I use facts to justify my adaptation, e.g. my animal has a thick coat to protect from the extremely cold temperatures (-75 °C) and the 140 mph winds. I define my key words (say what they mean).
4	I include a detailed description of my species and its habitat. I can incorporate my animal into true to life.
5	I think about the interconnection between species - what will happen if we introduce your animal into the wild and why?

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Animal adaptations - improvements

Let's make it better!

Using the mark scheme, try to improve your Antarctic animal before it is marked.

Score	Descriptor
1	I can describe in detail what my species looks like. I can give appropriate adaptations to the climate.
2	I can explain my adaptations using short sentences, e.g. a thick coat to stay warm. I use at least three key words, e.g. predator.
3	I use facts to justify my adaptation, e.g. my animal has a thick coat to protect from the extremely cold temperatures (-75 °C) and the 140 mph winds. I define my key words (say what they mean).
4	I include a detailed description of my species and its habitat. I can incorporate my animal into true to life.
5	I think about the interconnection between species - what will happen if we introduce your animal into the wild and why?

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