

Evolution and Inheritance: Lesson 9

Creating a Creature Adapted for a Cold Climate

Science KS2 Year 6



Evolution and Inheritance: Lesson 9

Science

Key Stage 2 Year 6

Learning Aims:

- recap learnings on adaptation and evolution
- use understanding of adaptation to create a new plant or animal adapted to surviving in a cold climate

Curriculum Link:

Pupils should be taught to:

- identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Year 5 and 6 Working Scientifically

- Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
- Identifying scientific evidence that has been used to support or refute ideas or arguments.

Keyword Vocabulary

Adapted. Environment. These were also on previous lessons.

Arctic. Antarctic.

These can also be found at the end of this PDF and can be placed on a learning wall as they are discussed during the presentation.



PowerPoint Presentation

The accompanying PowerPoint presentation has 16 slides with the following learning points:

- Slides 1 and 2 introduce the lesson.
- Slide 3 recaps the meaning of adaptation.
- Slide 4 asks the children to recap how the cactus and camel are adapted to hot, dry environments.
- Slide 5 introduces the activity, creating their own creature to be adapted to living and surviving in a cold climate.
- Slide 6 asks the children to consider the challenges of a cold habitat.
- Slides 7 to 9 ask the children how well adapted the polar bear and penguin are to living in a cold environment.

Classroom Discussion

- Slides 10 to 13 feature a selection of animals (mountain hare, whale, seal mother and pup). With the children, discuss the characteristics each animal has adapted to enable it to survive in a cold environment.

Activity

- Slide 14 introduces the activity and reinforces the points which the children will need to consider when they create their own new creature, specially adapted to living and surviving in a cold climate. You can use the worksheet on the following page of this PDF with this activity.
- Slide 15 is for any questions.
- Slide 16 closes the lesson.



Name:

Date:

**GETTING
AROUND**

Describe how your creature moves and gets around.

MY CREATURE'S DIET

MY CREATURE LIVES

Describe whether your creature lives in the sea, in the snow, underground – somewhere else.

MY CREATURE:

**MY CREATURE'S ADAPTATIONS
FOR A COLD CLIMATE**

SKIN COVERING

Describe the skin covering of your creature and why you chose it.

MY CREATURE IS

Describe whether your creature is predator, prey or even both.



Evolution and Inheritance: Keywords Flashcards



Adapted

Environment

Arctic

Antarctic



Arctic



Antarctic

