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**OBJECTIVE:**

Students will learn how emperor penguins survive in Antarctica.

How to Beat the Cold

Let's Get Ready!

How cold do you think the South Pole is?
What do you know about penguins?

★ NEW WORDS

Listen and repeat the words. Track 02



temperature



survive



layer



stiff



fluffy



huddle

WORD STUDY

Meanings of New Words
Uses of Words in Context
Word Expansion: stiff



Look at the pictures and choose the correct words.

1



A shuttlecock has 16 (heavy | stiff) feathers.

2



There are many (layers | lights) of pancakes.

3



We (huddle | spread) together to take a picture.

Read and write the correct words.

temperature survive fluffy

1 Joe cleans a desk with a _____ duster.

2 The _____ outside is zero degrees.

3 People need food and water to _____.

Word Expansion



adj. stiff

Stiff icicles are under the roof.



I woke up with a **stiff** neck.

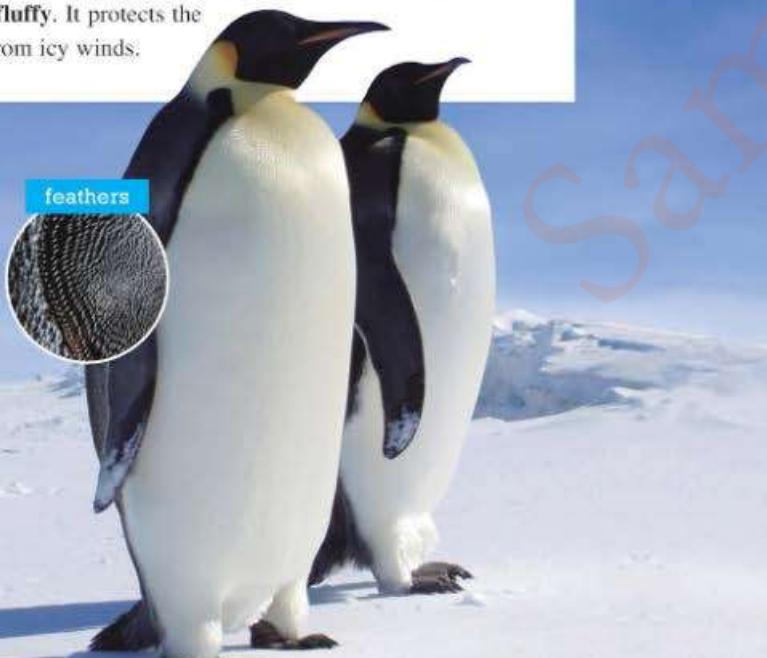
How to Beat the Cold

Track 03



Antarctica is located at the South Pole. It is covered by ice. It is the coldest place on Earth. In winter, the **temperature** can be -89°C ! Emperor penguins live in Antarctica. They are the largest of all penguins.

How can emperor penguins **survive** in this harsh cold? Their feathers help them beat the cold. A **layer** of outer feathers is **stiff**. It keeps out cold air and water. A layer of inner feathers is warm and **fluffy**. It protects the penguins from icy winds.



READ & SAY!

- How cold can Antarctica get?
- Why do emperor penguins huddle together in groups?

Emperor penguins have a special way to stay warm. They **huddle** together in groups. The penguins on the outside of the group are cold. The penguins on the inside are warm. Inside the huddle, the temperature can be around 20°C . Soon, the outside penguins move into the warm spots of the huddle. The inside penguins move to the outside of **it**. Huddling is important for emperor penguins to survive in Antarctica.

Antarctica is cold for emperor penguins, but they know how to survive there!

You Know What?

Antarctica Facts

- More than 98% of Antarctica is covered with ice.
- It gets less than 25 cm of rain per year. This makes Antarctica a cold desert.

COMPREHENSION

Read and choose the correct answers. ✓ ○

- 1 What is the passage mainly about?
a. emperor penguins in Antarctica
b. penguin species around the world
c. why Antarctica is very cold
- 2 Where is Antarctica located?
a. at the North Pole b. at the South Pole c. at the center of Earth
- 3 Emperor penguins are _____ of all penguins.
a. the fastest b. the smallest c. the largest
- 4 What do emperor penguins' outer feathers do?
a. They help the inner feathers grow.
b. They help the penguins breathe in fresh air.
c. They keep out cold air and water.
- 5 Which is **not** true about huddling?
a. Inside the huddle, the temperature can be around 20°C.
b. Emperor penguins huddle together to hunt for food.
c. The inside penguins move to the outside of the huddle.
- 6 What does the word "it" refer to?
a. a penguin b. the temperature c. the huddle

WRITE IT! the largest of all

Read the sentence with the phrase "the largest of all." Make your own sentence using it.

Emperor penguins are **the largest of all** penguins.

Sample answer: Blue whales are the largest of all animals.

PARAGRAPH SKILL

Choose the best place for the sentence. ✓ ○

It keeps out cold air and water.

How can emperor penguins survive in this harsh cold?

a Their feathers help them beat the cold. b A layer of outer feathers is stiff. c

ORGANIZE IT! Main Idea & Details

How do emperor penguins survive in Antarctica? Complete the chart. ✓ ○

How Emperor Penguins Survive



Two Layers of Feathers

A layer of outer feathers is stiff. It keeps out cold air and water. A layer of inner feathers is _____. It protects the penguins _____.



Huddling in Groups

The penguins _____. The penguins on the inside get warm. Soon, the outside penguins _____ of the huddle.

huddle together to stay warm
warm and fluffy

from icy winds
move to the warm spots