Polar Bear Hair Design

Name: ANSWER KEY Date: _____

Vocabulary Words: Match the definition to each word.

1. Polar bears live in the Arctic where it is very cold.
2. Scientists first tried to count polar bears using infrared cameras.
3. Polar bear fur is special because each hair is hollow inside.
4. The hollow hairs in polar bear fur trap air, keeping the bear warm.
5. Later, scientists used ultraviolet cameras to count the bears.

Word bank: infrared, air, hollow, Arctic, ultraviolet

Multiple Choice: Choose the correct answer from the choices for each question.

1. Why couldn't scientists see polar bears with infrared cameras?
   a) The cameras weren't strong enough
   b) The bears were hiding underground
   c) The bears' fur kept their heat from escaping
   d) The polar bears were extinct

2. What is inside each strand of a polar bear's hair?
   a) Water
   b) Ice
   c) Metal
   d) Air

3. What material is polar bear hair compared to in the passage?
   a) Cotton
   b) Styrofoam
   c) Wool
   d) Plastic

4. What is the main reason polar bears survive in the Arctic?
   a) They eat a lot of fish
   b) Their fur is a great insulator
   c) They sleep all winter
   d) They run fast

Discussion & Reflection: Answer the following questions in complete sentences

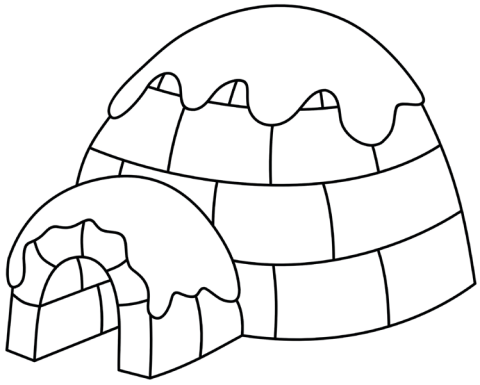
1. Explain why polar bear fur helps them survive in the Arctic.

Polar bear fur is hollow and traps air, which keeps the bear's body heat from escaping, helping them stay warm in the freezing Arctic.

2. Describe how scientists finally counted the polar bears after the infrared cameras didn't work.

Scientists used ultraviolet cameras, which do not rely on heat, to see and count the polar bears after infrared cameras failed.

3. This shows me that God is (Circle the word):

Wise Powerful Caring Creative All of the above

Explain your choice: