# The Invention Inspired by a Dog's Foot

Name: ANSWER KEY Date: _____

## Vocabulary Words: Match the definition to each word.

1. Paul Sperry was inspired by his dog when he invented a new kind of shoe sole.
2. The pattern on the bottom of the new deck shoe was V shaped.
3. The V-shaped grooves on the shoe help channel water away from the shoe.
4. Paul noticed that his dog's foot had leather pads separated by grooves.
5. Today, the herringbone pattern is also used on tires to help them grip wet roads.

**Word bank:** sailboat, tires, water, dog, V, grooves

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

1. Why did Paul Sperry want to invent a new kind of shoe?
   a) He wanted to make shoes for running.
   b) He was interested in fashion.
   c) He wanted to help dogs run faster.
   d) He kept slipping on his sailboat's wet deck.

2. What did Paul notice about his dog when on the sailboat?
   a) The dog always got wet.
   b) The dog slipped just like Paul.
   c) The dog never slipped on the wet deck.
   d) The dog wore special shoes.

3. What shape did Paul use for the grooves on the bottom of his shoes?
   a) Square
   b) Circle
   c) V-shaped
   d) Straight lines

4. The herringbone pattern helps shoes and tires by:
   a) Making them look fancy
   b) Channeling water away so they grip better
   c) Making them softer
   d) Helping them float

## Discussion & Reflection: Answer the following questions in complete sentences

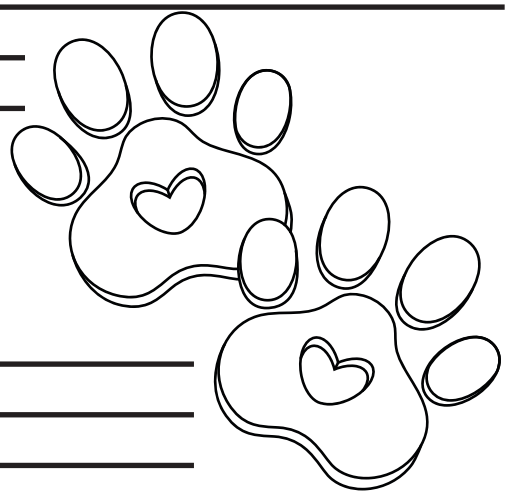
1. How did Paul Sperry's observation of his dog lead to a new invention?

Paul Sperry saw that his dog didn't slip on the wet deck because of the grooves on its feet, so he copied that idea to make safer shoes.

2. Describe a time when you noticed something in nature that inspired you or made you curious.

The herringbone pattern is useful because it helps move water out from under shoes and tires, giving them more grip and making them safer on wet surfaces.

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

Wise Powerful Caring Creative All of the above

Explain your choice: