Design Information Transfer

Grade 4 Science Worksheet - Challenge Me

Name _____ Date _____

Circle the answer.

1. Code: blue flag = rain coming, yellow flag = sunny day. A sailor sees a blue flag. What should she expect?

   strong wind only a sunny day fog rain

2. Code: A = short-long, B = long-short-short, C = long-short-long. A receiver hears long-short-long-short-long. What did the sender spell?

   C then B A then C C then A B then A

3. A ship and a lighthouse must signal at night and in fog. Which design works best in both?

   a loud horn pattern plus a bright light pattern

   a bright light pattern only

   a written sign on the lighthouse

   colored flags only

4. A class tests a sound code with 10 messages. Partners decode 9 correctly, but mix up "left" and "lift" patterns. What is the best next step?

   make all patterns the same length and sound

   remove the code key

   keep the code as it is

   make the left and lift patterns more different

5. A code sends numbers by tapping. Circle 4 times for 4. What problem comes with big numbers like 30?

   there is no problem at all

   it takes a long time and is easy to miscount

   the receiver cannot hear numbers

   the taps get louder each time

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Answer Key - Grade 4 Science Worksheet - Challenge Me

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