Name _____ Date _____

Answers

How the Internet Travels Across the Ocean

DIRECTIONS: Read the nonfiction passage and then answer questions about the text.

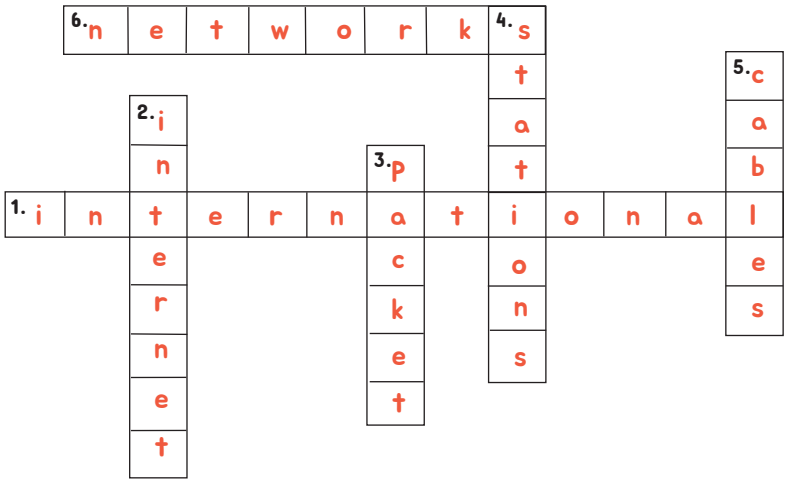
Have you thought about how much you use technology, or more specifically, the internet? Have you used it today? The internet has opened the door to international communication. Jobs, schoolwork, and entertainment rely on the internet in some form or another.

The internet is a network that allows for computers to talk to each other. Computers work together and share information as part of a giant, global network. This network is not located in a building, but rather is connected by cables around the world. These cables even run through oceans!

Did You Know?
Even internet cables have felt the strength of a shark's jaw. Sharks have bitten into cables many times.

When one computer communicates with another, it sends information through a network of cables. The information is sorted into packets, which are small pieces of information similar to a puzzle, and then sent through the cables. Packets can travel millions of miles per millisecond through transoceanic cables. Cables emerge from the sea at landing stations where they connect up to wires on land.

When a computer receives a packet, the pieces are mixed up. Then it's the computer's job to piece together the information that was sent and share it with the user. It's this interconnected system that allows people to communicate across oceans.



Across

1. Between nations

6. Systems of interconnected things

Down

2. Opened the door for global communication

3. A ___ is a small amount of information

4. Cables connect at the landing ____

5. Needed to send messages across the ocean

Name _____ Date _____

Answers

How the Internet Travels Across the Ocean

DIRECTIONS: Answer the following questions based on the text above.

1. Can you imagine what a day might look like without any internet connection? Consider this thought experiment and take it one step further: What would your day look like without technology? Sketch or write your answer.

Student answers will vary.

2. Write a caption for the image in the text.

Student answers will vary, but the caption should describe what is happening in the picture. It should mention the cables in the ocean and the ocean animals.

3. Explain the relationship between the cable network and the internet.

The cable network allows for the internet to work globally. If there were no cables, or if they broke, the packets would not move globally from computer to computer.

4. Use context clues to determine the correct meaning of the prefix *-trans* in the word **transoceanic**.

a. changing

b. inside

c. across

d. replaced