ACTIVITY SHEET · AGES 8–12

How the Internet Works

Name _____

Date _____

1 Follow the Message

When you open a website, your request goes on a trip and the website travels back to you. Read each clue, then write the right name from the word bank on the line.

WORD BANK: **Server** · **Cables** · **Device** · **Internet provider** · **Router**



STOP 1

You use me to type a web address or tap a link. I can be a laptop, a tablet, or a phone.

I am the... _____



STOP 2

I am a small box in your home. I pass your request along, often using Wi-Fi.

I am the... _____



STOP 3

I am the company that connects your home to the rest of the Internet.

I am the... _____



STOP 4

We are long lines that carry information between cities and countries. Some of us lie on the ocean floor.

We are the... _____



STOP 5

I am a computer that stores the website. I wait for requests and send the page back to you.

I am the... _____



Did you know? Your message does not travel in one piece. It is split into small pieces called **packets**. The packets can take different routes, and they are put back in the right order when they arrive.

KEEP LEARNING

Goes with the book **How the Internet Works for Kids Ages 8–12** by Laith Sad.

Book on Amazon: **amazon.com/dp/B0HLH86YQ3**

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2 Packet Puzzle

These five packets arrived in the wrong order. Use the number on each packet to put the words back in order, then read the secret message.

4 SMALL	1 INFORMATION	5 PACKETS	3 IN	2 TRAVELS

1	2	3	4	5

3 True or False?

Read each sentence. Circle **True** or **False**.

1	The Internet is a network of networks that links computers all around the world.	True	False
2	Wi-Fi and the Internet are exactly the same thing.	True	False
3	Most of the journey between continents happens through cables, including cables on the ocean floor.	True	False
4	A website's files are stored on a computer called a server.	True	False
5	A photo always travels across the Internet as one big piece.	True	False

4 Explain It in Your Own Words

Imagine a friend asks, “What happens when I open a website?” Write or draw your answer. Try to use at least two of these words: **router**, **packets**, **server**.

Answers · **Follow the Message:** 1 Device, 2 Router, 3 Internet provider, 4 Cables, 5 Server. · **Packet Puzzle:** INFORMATION TRAVELS IN SMALL PACKETS. · **True or False:** 1 True. 2 False (Wi-Fi is only the wireless link between a device and the router). 3 True. 4 True. 5 False (it is split into packets).