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✏️ STUDENT HANDOUTS

READING COMPREHENSION

EZ✓ EASY MARKING™ ANSWER KEY

MINI POSTERS

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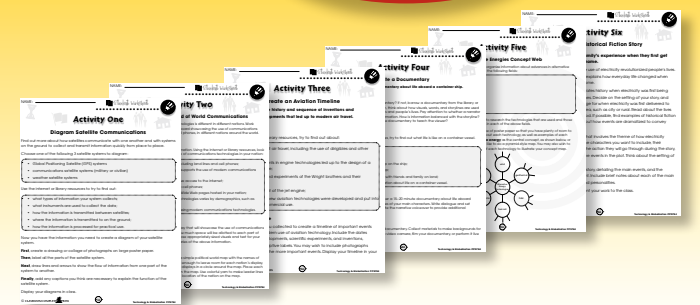
The World Wide Web

1. Use a dictionary to look up the word INTERNET. Write the definition on the spaces provided.

The definition of **internet** is:

_____

_____

2. **Think for a moment about how people use the internet for information and communications.**

a) List three ways people can use the internet to find out information.

_____

_____

_____

b) List three ways that people use the internet to communicate with one another.

_____

_____
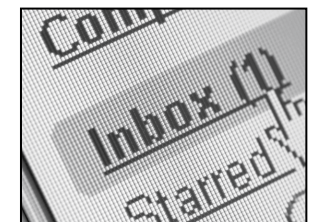
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PREASSESSMENT

The World Wide Web

The development of computer technology in the 20th century led to a computer-based communications network known as the **internet**. During the Cold War, the United States Defense Department developed the idea of a non-centralized network of computers that could transmit communications. Because information could be transmitted along any path in the system, the destruction of one part of the system by war tactics would not disrupt communications among all other parts of the system. However, the use of the internet quickly expanded beyond defense. By the 1980s, many institutions used the internet for communications of all kinds, such as the sharing of scientific data and cataloging information from the Library of Congress. Up to this point, information on the internet could only be shared in text form. However, the invention of the **World Wide Web** in the early 1990s, allowed all kinds of digital information, including images and sound, to be transmitted over the internet.

🛑 STOP

What is the internet?

_____

_____

The Internet Era

In 1993, the developers of the World Wide Web announced that the web technology would be freely available to everyone without charge. Inventions of web browsers and the computer mouse allowed people to view web pages and follow hyperlinks to other pages. Because web technology was freely available, computer programmers from all around the world added applications and software to the internet. Each year saw a huge growth in every aspect of the internet, from the number of users to the number of web pages available. The use of the internet expanded from the exchange of information among scholarly and governmental institutions to private communications and commercial transactions of all kinds. By 1998, over 750,000 commercial sites existed on the World Wide Web. The 2000s saw the development of social networking sites, which have become a popular way for friends and family to keep in touch across great distances in a globalized world. During the same period, cell phone technology merged with the internet to further increase access to the World Wide Web. Many people now rely on the World Wide Web for most forms of communication, including entertainment, news, business, and personal relationships.

The internet era

READING PASSAGE

The World Wide Web

1. **Fill in each blank with the correct word, date, or phrase from the reading.**

a) The development of computer technology in the 20th century led to a computer-based communications network known as the _____.

b) During the _____, the United States Defense Department developed the idea of a non-centralized network of computers that could transmit _____.

c) By the _____, many institutions used the internet for communications of all kinds.

d) The invention of the _____ in the early 1990s allowed all kinds of digital information, including images and sound, to be transmitted over the internet.

e) Inventions of web browsers and the computer mouse allowed people to view web pages and follow _____ to other pages.

2. **Put a check mark (✓) next to the answer that is most correct.**

a) **In what year did the developers of the World Wide Web announce that the web technology would be freely available to everyone without charge?**

○ **A** 1980
○ **B** 1993
○ **C** 1998
○ **D** 2000

b) **About how many commercial sites existed on the World Wide Web in 1998?**

○ **A** fewer than 10,000
○ **B** fewer than 500,000
○ **C** over 750,000
○ **D** over one million

COMPREHENSION QUESTIONS

Activity Four

Communications Technology Fair

In this activity, you and your classmates will learn about many different modern communications technologies that help people around the world stay connected and exchange information for business, research, and educational purposes.

First, use the internet or library resources to research a list of 10–20 different communications technologies that people use for any of the following uses:

• staying in touch with family and friends
• keeping up with news and world events
• work and business
• education

Second, have each student in your class choose a technology from the list to learn more about. Students may work alone or in teams.

Once you have chosen your product, research answers to the following questions:

• How does the technology work?
• What devices do people use to access the technology?
• What other technologies support the use of this technology?
• How does the technology help people?
• How does the technology affect globalization?

Make a poster presentation that answers all of the questions above and contains photographs of the technology and/or its applications.

Third, set up a Communications Technology Fair in your classroom or common school area, such as the auditorium. Display the posters and products on tables, and have students stand near their displays to answer questions. Invite students, teachers, parents, and other members of your school community to walk through the Communications Technology Fair.

HANDS-ON ACTIVITIES

Crossword Puzzle!

Across

3. _____ technology helps people exchange information
6. a nation that is undergoing industrialization
7. able to read
8. increased greenhouse gas concentration leads to global _____
9. fabrics, such as cotton and wool
10. harmful substances that people put into the environment
12. technology for air travel
14. a giant, international network of computers
15. movement of people and goods from place to place

Down

1. the movement of people, ideas, and goods around the world
2. a 19th century invention using codes to send messages along wires
4. related to the use of manufacturing and machines
5. petroleum gas is a fossil _____
11. greenhouse _____ trap heat in the atmosphere
13. a source of energy that can be used again and again or does not run out

Word List

aviation
communications
developing
fuel
gases
globalization
industrial
internet
literate
pollution
renewable
telegraph
textiles
transportation
warming

Word Search

Find all of the words in the Word Search. Words are written horizontally, vertically, diagonally, and some are even written backwards.

astronaut
aviation
communications
container
correspondence
developed
digitize

energy
fuel
globalization
greenhouse
Industrial Revolution
industrialization
internet

literate
migrate
nation
ocean
orbit
pollution
renewable

space
technology
telegraph
textiles
transportation
warming
World Wide Web

Comprehension Quiz

Part C

Answer each question in complete sentences.

1. Explain how developments in transportation technology have increased the pace of global travel during the last 200 years. **/2**

_____
_____
_____
_____

2. Explain how technology allows goods to be shipped efficiently around the world. **/2**

_____
_____
_____
_____

3. Describe two ways that satellite technology is used to help people communicate, get information or travel in a globalized world. **/2**

_____
_____
_____
_____

4. Compare and contrast how people in the 19th century and modern people communicated with faraway family members. **/2**

_____
_____
_____
_____

Travel Technology Timeline

The World Wide Web

3. a) Describe the original purpose of the internet when it was first being developed.

_____

_____

_____

b) Explain how the current use of the internet is different from its original purpose.

_____

_____

_____

_____

Research

Make a Poster

4. Find out more about how the use of the internet has changed the way people communicate around the world. Use the internet or library resources to find out about:

- how many people have access to the internet around the world;
- how many World Wide Web sites exist, and where they originate from by country;
- common social uses of the internet;
- how workers from different industries use the internet;
- how people are affected when networks go down;
- how the internet is used for common transactions in everyday life, such as banking and shopping;
- how students use the internet to support learning.

Use this information to create a poster showcasing the main ideas about how people use the internet for work, education, transactions, and socializing. Display the posters in your classroom and discuss with your classmates what life would be like without the internet.

3.

a) During the Cold War, the United States Defense Department developed the idea of a non-centralized network of computers that could transmit communications, so that the destruction of one part of the system by war tactics would not disrupt communications among all parts of the system.

b) The current use of the Internet is used for social networking and communications across great distances.