

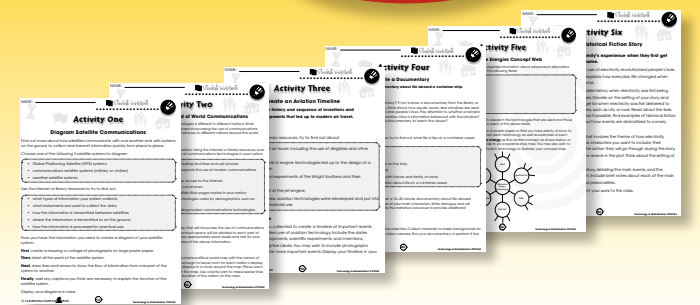
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NAME: _____



Technology and Globalization: An Overview

1. What do you think of when you hear the word **technology**? What are some ways that people use technology? Write your ideas on the spaces provided.

2. Brainstorm a list of five technologies on the spaces provided.



3. a) Use a dictionary to look up the word **TRANSPORTATION**. Write the definition on the spaces provided.

The definition of **transportation** is:

b) Use a dictionary to look up the word **COMMUNICATION**. Write the definition on the spaces provided.

The definition of **communication** is:



NAME: _____

Technology and Globalization: An Overview

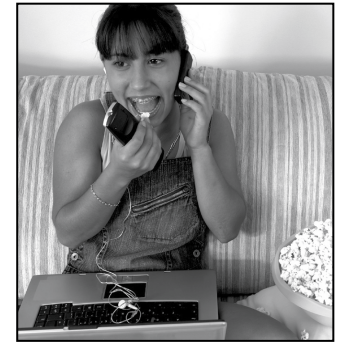
T **technology** is the practical application of knowledge, often involving the use of tools. The development of technology through human history has had an ongoing impact on **globalization**—the sharing of goods, ideas, culture, systems of government, and people among different parts of the world. When early humans began to move around the world, their technology was limited. Travel was made by foot, and exchanges of goods were made directly by barter. Over time, humans developed agriculture and more sophisticated tools. By the first millennium B.C.E., humans were trading goods and technologies over longer trade routes, often traveling with the aid of domesticated animals. Over the last two millennia, developments in technology greatly increased the speed at which people travel and communicate. Now, people, goods, ideas, and technologies rapidly flow from one part of the world to another.



What is **technology**?

Technologies that Influence Globalization

Many kinds of technologies play a role in globalization. **Transportation** technologies allow for the movement of people and goods from one place to another. **Communications** technologies allow people who are a great distance apart to rapidly exchange information, ideas, and media, and to sustain emotional connections to family and friends. Industrial technologies produce the parts and equipment that support transportation and communication. Energy technologies are essential to power transportation and electronic communications. Space technologies, such as satellites, also support transportation and communications, with applications in air traffic control, cellular phone service, and the internet. Advances in each of these fields contribute to an increasingly interconnected, globalized world.



Student using technology

NAME: _____



Technology and Globalization: An Overview

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

- a) When early humans began to move around the world, their _____ was limited.
- b) Travel was by _____.
- c) Exchanges of goods were made directly by _____.
- d) Over time, humans developed _____ and more sophisticated _____.
- e) By the first millennium B.C.E., humans were trading goods and technologies over longer trade routes, often traveling with the aid of _____.
- f) Over the last two millennia, developments in technology greatly increased the speed at which people _____ and _____.
- g) Now, _____, and _____ rapidly flow from one part of the world to another.

2. On the spaces provided, list 5 types of technologies that increase the pace of globalization.



Activity One

Conduct an Internet Survey

Developments in the use of the internet has helped increase the pace of globalization. Find out more about how people in your school community use the internet, and how the use of the internet affects people's everyday lives.

Before You Begin

First, design a survey to find out information about how students and their families use internet technology. Ask yourself the following questions:

- What format do you want the responses to be in? For example, you might consider short answers, lists, multiple choice, rankings. What format will be easiest to collect and analyze? What format will provide the most detailed information? Will you use different formats for different questions?
- How can you word questions to find out how the internet is by students and their families, including uses in the home, at school, and in the workplace? You may wish to include separate questions about different technologies, such as the World Wide Web and cellular phones. You may want to ask questions about the demographics of family members who use the internet, such as their ages or age ranges.
- How long should the survey take to complete?
- How many students will take the survey? If you do not survey every student at school, how can you get a sample of students that best represents the overall student population?
- How will you analyze the data you collect?
- How will you report the results?

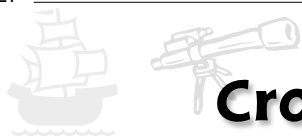
Conduct and Analyze Your Survey

- Ask teachers for a few minutes of class time to introduce the survey. Hand out survey forms and request that students fill out and return the surveys as soon as possible.
- Compile all of your survey responses and analyze the results. Use mathematics to show the percents of people of different ages who access the internet for different uses. Analyze any other questions you asked.

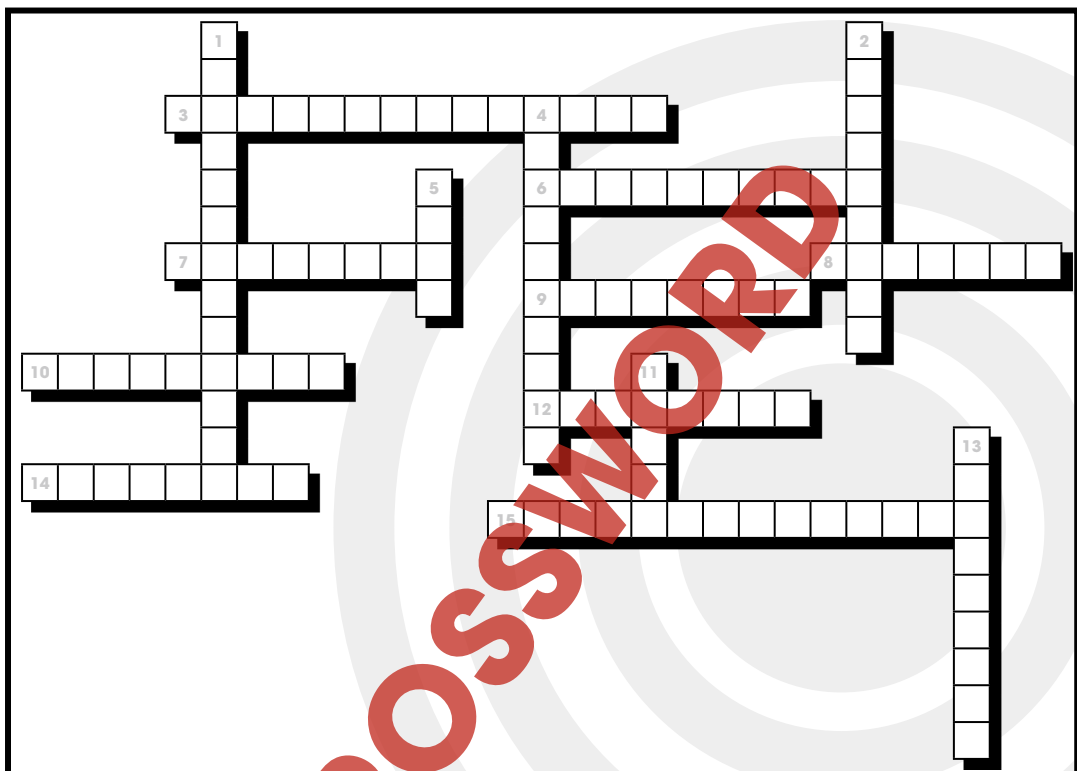
Now, create a poster to display your results. Include any charts, graphs, or tables that will help people visualize trends in your data. Write a short summary of your findings. Display your posters in a central area at your school so that students may view the results.

NAME: _____

After You Read



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

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

NAME: _____

After You Read

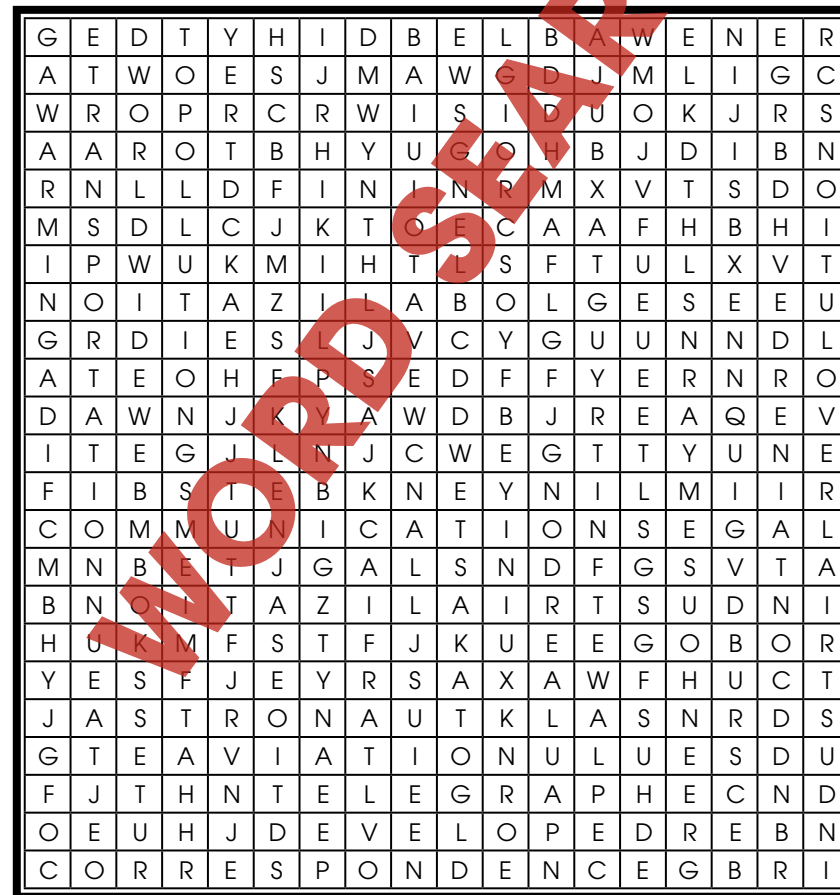


Word Search



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

- | | | | |
|----------------|-----------------------|-----------|----------------|
| astronaut | energy | literate | space |
| aviation | fuel | migrate | technology |
| communications | globalization | nation | telegraph |
| container | greenhouse | ocean | textiles |
| correspondence | Industrial Revolution | orbit | transportation |
| developed | industrialization | pollution | warming |
| digitize | internet | renewable | World Wide Web |



NAME: _____

After You Read



Comprehension Quiz



Part A

22

Circle TRUE if the statement is TRUE or FALSE if it is FALSE.

- 1. In the first millennium B.C.E., humans were trading goods and technologies over long trade routes with the aid of domesticated animals.
TRUE FALSE
- 2. The period from 1900-1950 in the United States is known as the Industrial Revolution.
TRUE FALSE
- 3. The telegraph was invented in the early 18th century.
TRUE FALSE
- 4. The World Wide Web was developed in the latter part of the 20th century.
TRUE FALSE
- 5. Natural gas is a renewable energy resource.
TRUE FALSE
- 6. By the late 1950s, jet aircraft outpaced steam ships for use in international travel.
TRUE FALSE
- 7. Telephones depend on the use of electromagnetic technology.
TRUE FALSE
- 8. Cargo airplanes are the most efficient way to transport goods from the places where they are made to the places where they are sold.
TRUE FALSE

Part B

On the spaces provided, give an example of a technological development in each field and explain how that development affects globalization.

6

Transportation _____

Communications _____

Space _____

Development: World Nations



Developed Nations
Developing Nations
Underdeveloped Nations



After You Read

NAME: _____

Technology and Globalization: An Overview

3. a) Explain why advances in transportation and communication technologies are important factors in globalization.

b) Describe one kind of technology that supports communication and/or transportation and explain its role.

Research

Write a Story

4. How does globalization depend on technology? Using the internet or library resources, find out more about how advances in communications, transportation, industry, energy use, and space technologies work together to support today's globalized world. Find out about:

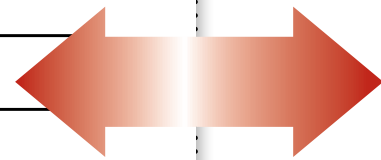
- methods of international travel;
- the technologies that enable instant communication over great distances;
- how people get news and information;
- energy sources for powering technologies.

Using this information as background, write a story about a typical day in the life of an international business traveler. Be sure to describe how the main character travels; the technologies the main character uses on a daily basis; and how the main character communicates with work, friends, and family. Share your stories with your classmates.

3.

a) Technologies help people, goods, and ideas move faster around the world.

b) Answers will vary.



EASY MARKING

ANSWER KEY

