

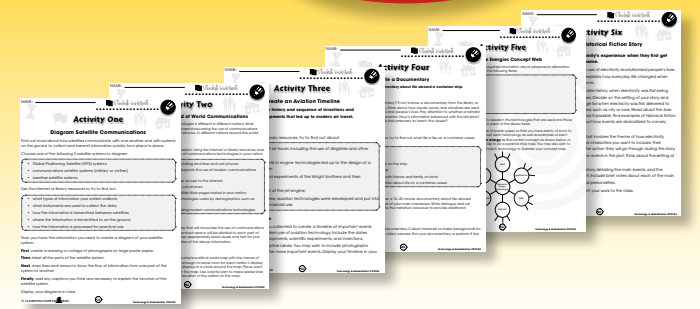
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# Technology for Transporting Goods

1. a) On the spaces provided, list 10 products you use at home or school that came from another country. Look at product labels to see where they were made.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

The definition of **containerization** is:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

c) How do you think methods of shipping goods from one place to another have changed over time? Write your response on the spaces provided.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



# Technology for Transporting Goods

For millennia, transportation of goods for trade was accomplished along overland routes on foot or by domesticated animals, including horses and camels. Small boats were used to move goods along riverways and shorelines, and across small seas, such as the Mediterranean. Advances in maritime technology in the middle of the second millennium C.E. allowed larger sailing ships to make regular journeys across vast oceans, or **transoceanic** voyages. From the middle of the 17th century, to the middle of the 19th century, merchant sailing ships were used for trading between continents. During this period, merchant sailing ships were used for much of the trade between nations with shorelines.



Steam engine technology



During what time period were merchant sailing ships the main method of transporting goods between continents?

\_\_\_\_\_

In the 19th century, steam engine technology was developed, allowing for the invention of steam ships and locomotive engines. Railroads were built in the interiors of continents, which allowed overland trade to become quicker and more efficient. It also allowed for the overland transportation of great volumes of heavy natural resources such as coal and ore. The 20th century saw the development of aviation technology, which allowed goods to be transported quickly in the air.

### Container Shipping

In the 20th century, advances in engine technology allowed for the construction of larger and larger ships that could make transoceanic voyages without the need to follow prevailing winds. These developments led to the system of container shipping, which is now used to transport most goods between nations on different continents. Containers are steel rectangular boxes that can be transported by truck, train, and ship. Containers are packed at a plant, transported by truck or train to a shipping dock, loaded onto a container ship, transported across the ocean to another shipping dock, and picked up once again by truck or train to be transported overland. This system, known as **containerization**, is a very efficient method of moving cargo, and has helped to greatly expand the volume of international trade.



# Technology for Transporting Goods

1. Write each term beside its meaning.

cattle	transoceanic	container
aviation	maritime	containerization

- a) describing technology that has to do with oceanic travel
- b) a large, steel, rectangular shipping unit that can be transported by train, ship, or truck
- c) describing a voyage across an ocean
- d) the system of using containers to transport goods efficiently from the location of their origin to their destination in another country
- e) domestic animals used for transportation, such as horses and camels
- f) describing technology that has to do with air travel

2. For each time period, write the main development in shipping technology. Then, briefly describe how that technology changed the way goods were shipped from one nation to another.

- a) 1700s  
\_\_\_\_\_
- b) 1900s  
\_\_\_\_\_
- c) 2000s  
\_\_\_\_\_



# 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

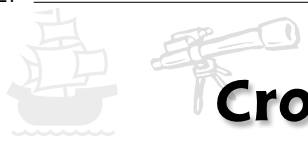
- Ask teachers for a few minutes of class time to introduce the survey. Hand out survey forms and request that students fill out and return the surveys as soon as possible
- Compile all of your survey responses and analyze the results. Use mathematics to show the percents of people of different ages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

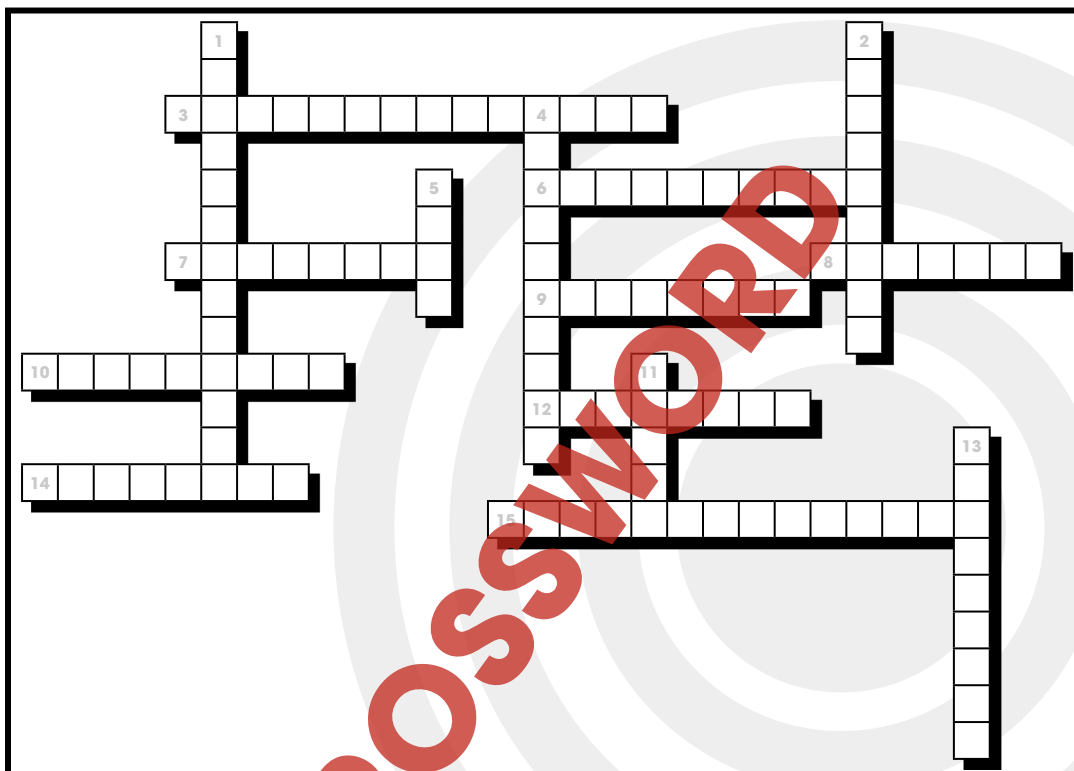


NAME: \_\_\_\_\_

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

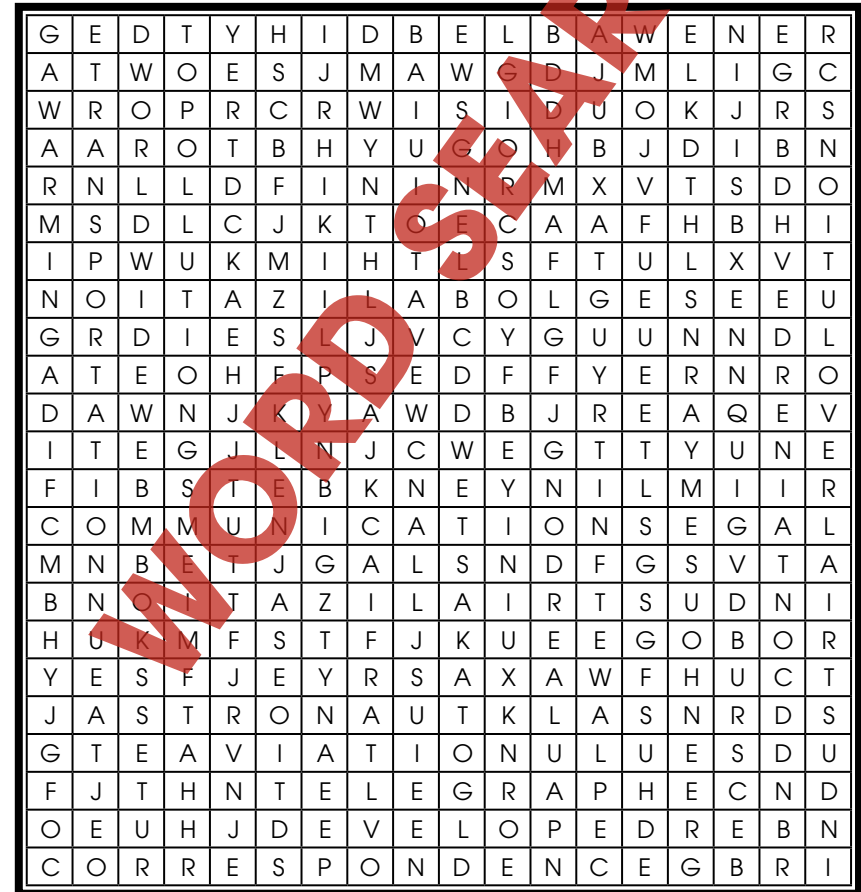


# Word Search



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



22

### Part A

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.

Transportation \_\_\_\_\_

Communications \_\_\_\_\_

Space \_\_\_\_\_

# Development: World Nations



Developed Nations  
Developing Nations  
Underdeveloped Nations



# Technology for Transporting Goods

3. a) Describe how advances in technology have changed the way items are shipped from place to place around the world.

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b) Explain how containerization allows for a greater volume of goods to be shipped more efficiently around the world.

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## Research

### Make a Flow Chart

4. Find out more about how goods are shipped from where they are made to their final destinations. Choose one product that you use at home or school. Then, use the internet or library resources to find out about:

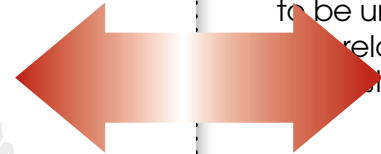
- what raw materials were used to make the product;
- where the factory that made the product is located;
- where the raw materials came from and how they were shipped to the factory where the product was made;
- how the finished product was shipped from the factory to the location where the product is sold (this most likely involves several different steps).

Use this information to create a flow chart showing the sequence of steps it took to ship goods from their original raw materials to their final destination as a finished product. Display the flow charts in your classroom. Compare and contrast how different products were shipped.

3.

a) Answers will vary but may include, how maritime technology allowed goods to be transported across oceans.

b) The same containers can be placed on rail cars, trucks, and container ships, so they do not have to be unpacked and reloaded at each stage.



# EASY MARKING ANSWER KEY