

Astronaut

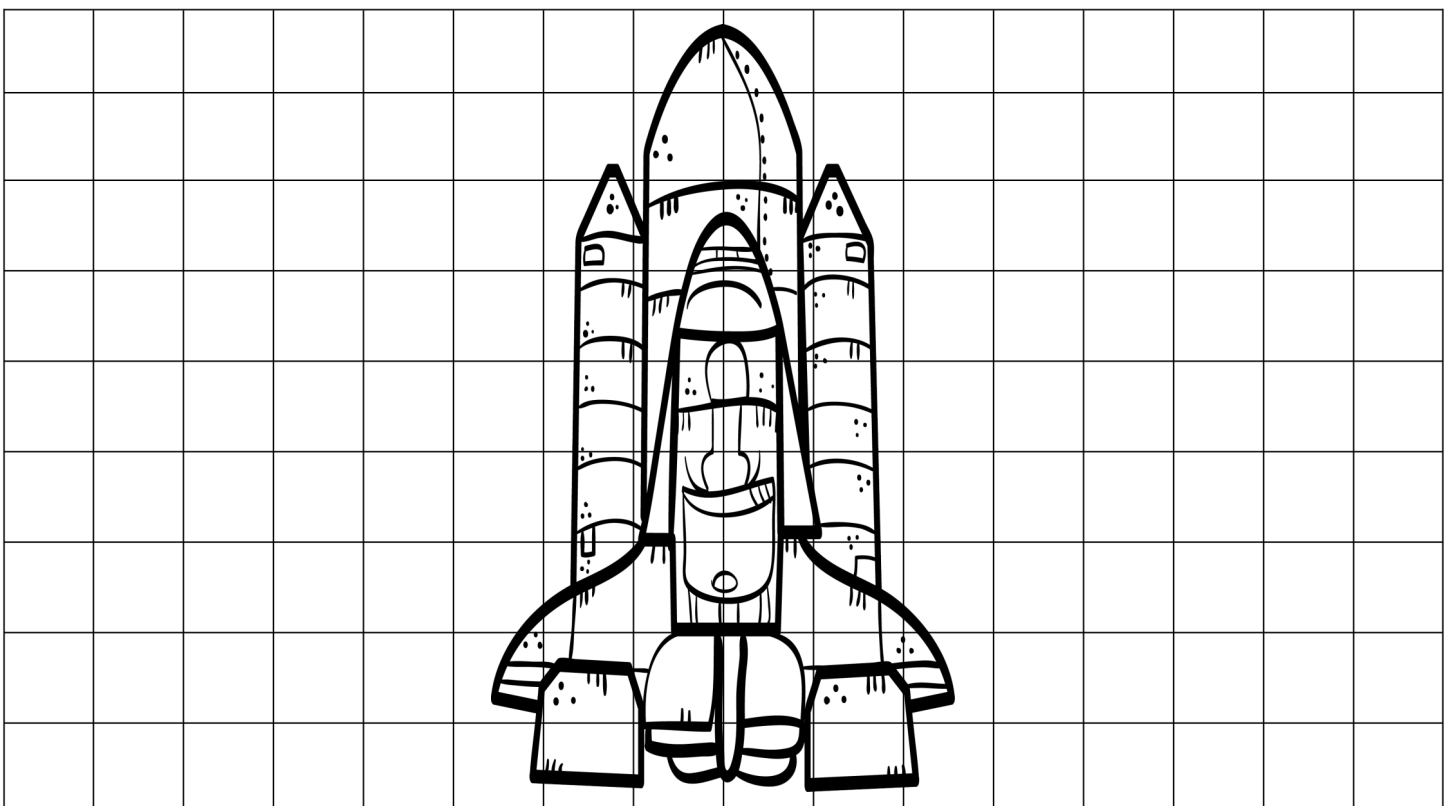
Did you know there was no such thing as an astronaut until the 1960s? The name “astronaut” was given to people who flew any type of aircraft higher than 50 miles (80 km) above the earth. Today, we think of astronauts as people who fly into outer space. The type of spacecraft flown or commanded by astronauts has changed a great deal since the space program began.

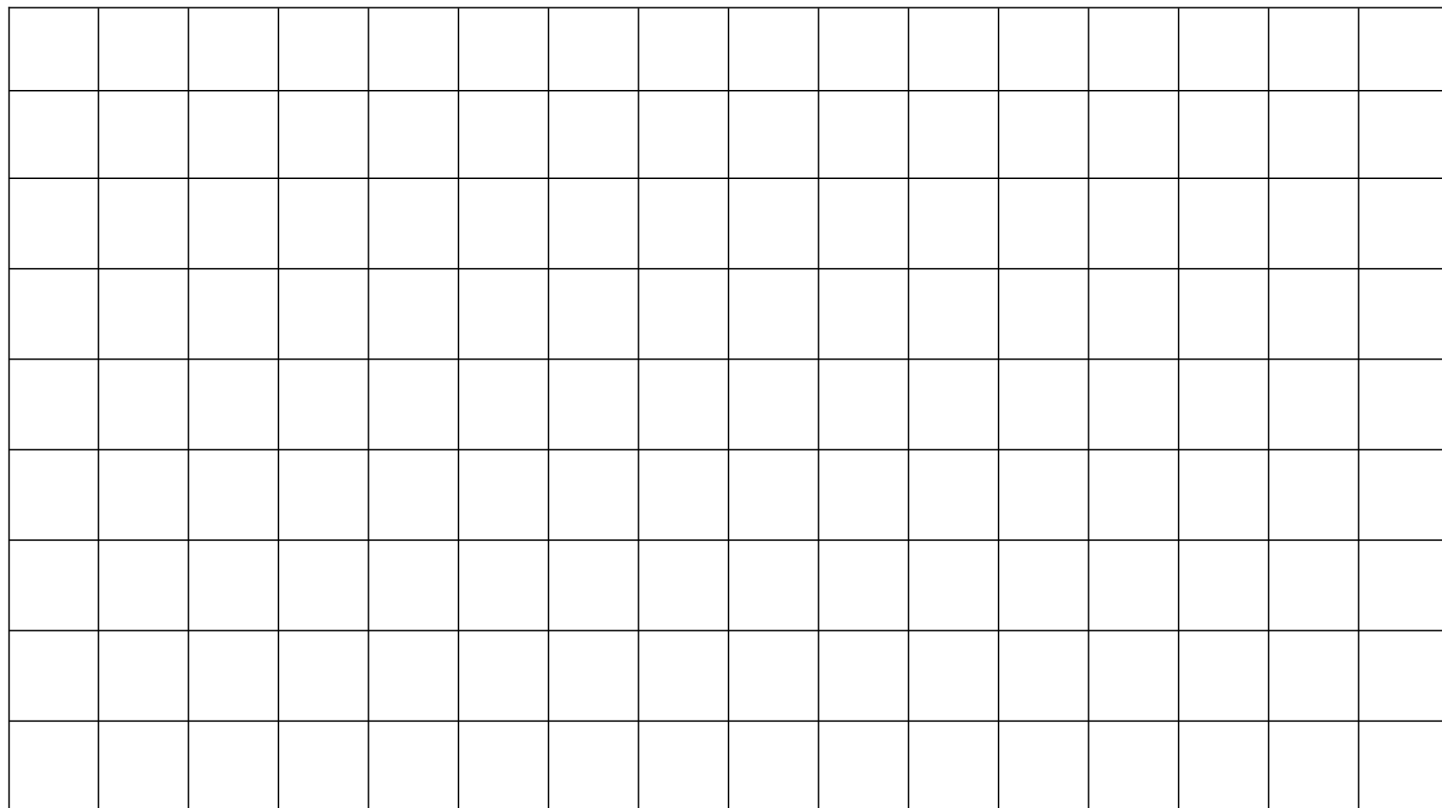
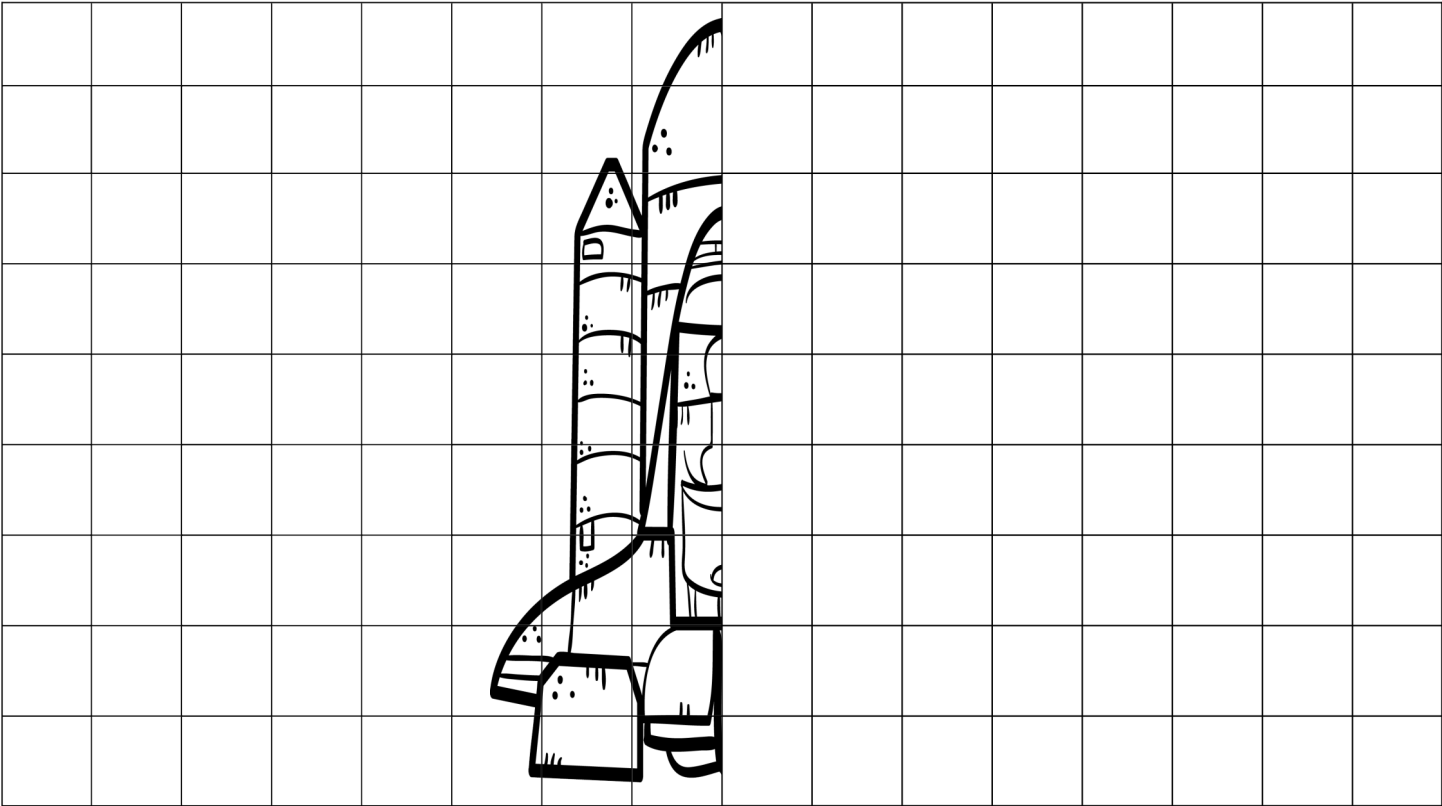
The space shuttle was the first spacecraft that was partly reusable. Before this, all spacecraft were used only once. Part of the shuttle, the orbiter, looked something like an airplane. It also had two reusable rocket engines. The large fuel tank on the shuttle was not reusable. There were five shuttles built—Atlantis, Challenger, Columbia, Discovery, and Endeavour—and a model that was used for testing called Enterprise. Astronauts aboard Columbia helped carry the research laboratory, Spacelab, into space. They also repaired satellites and the Hubble Space Telescope.

Before going into space, astronauts must have flight training and survival training. They also must learn about the layout of the spacecraft and study the flight-control systems. They train for living in weightless environments and for special jobs that they may have on their particular mission, such as speaking Russian on the International Space Station. Once they’ve gained some experience, they can also make suggestions on the design of the spacecraft and what special equipment may make their jobs easier.

Follow these instructions to draw a picture of a space shuttle on the next page like the one shown below:

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- In the second grid, see if you can draw the entire picture.





Dentist

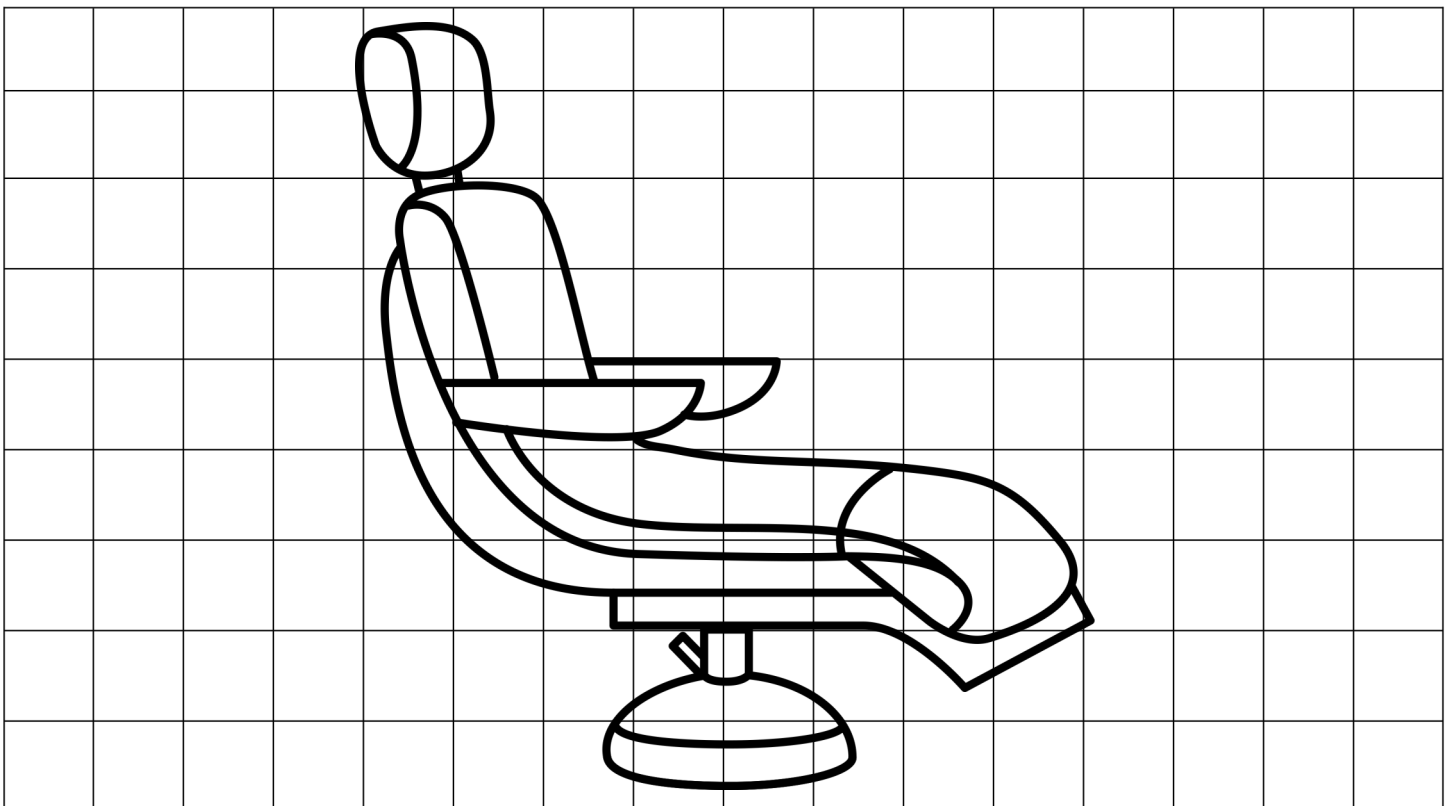
Dentists are important to your health. They treat and try to prevent diseases of the teeth, gums, and other areas of your mouth. Evidence has been found that shows there were types of dentists as far back as ancient Egypt.

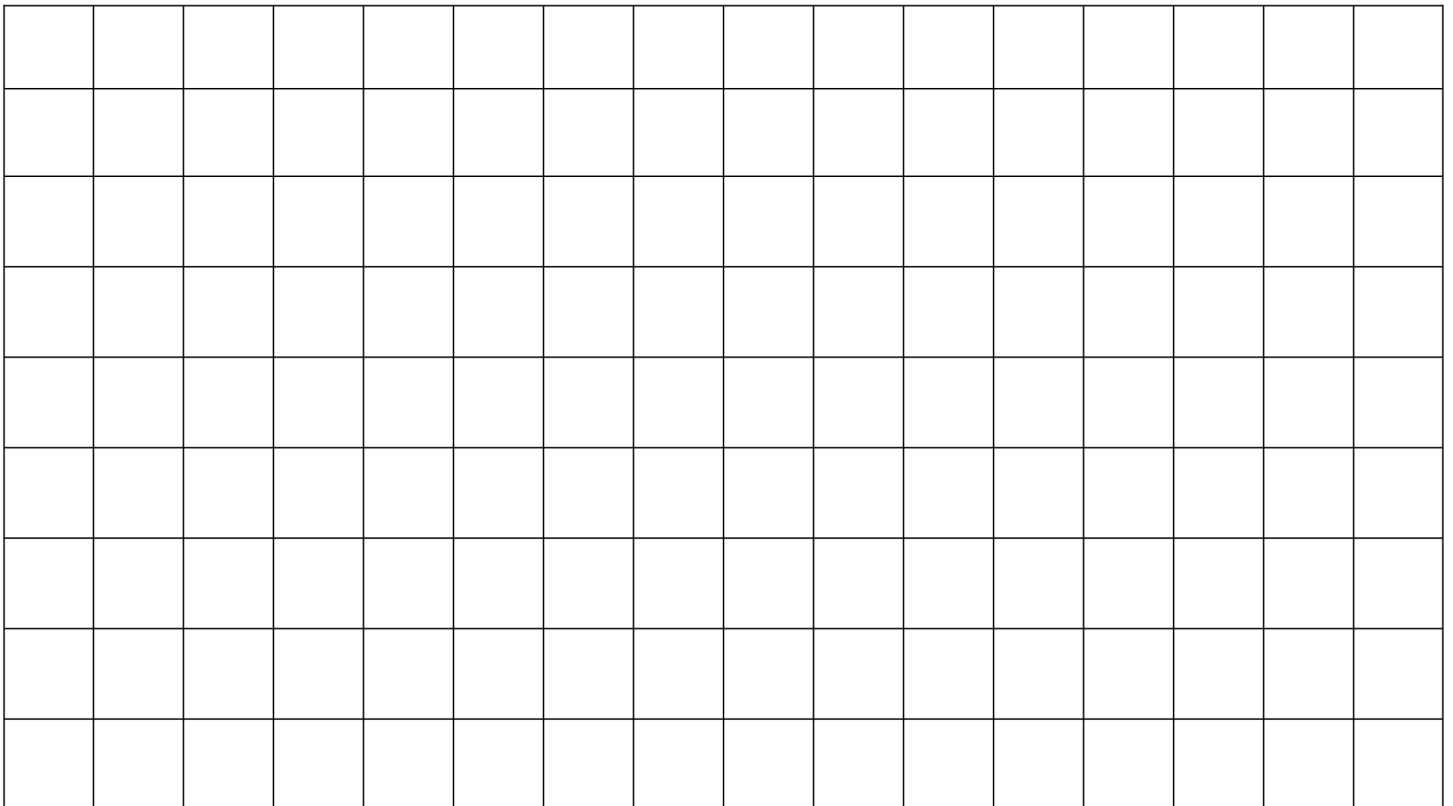
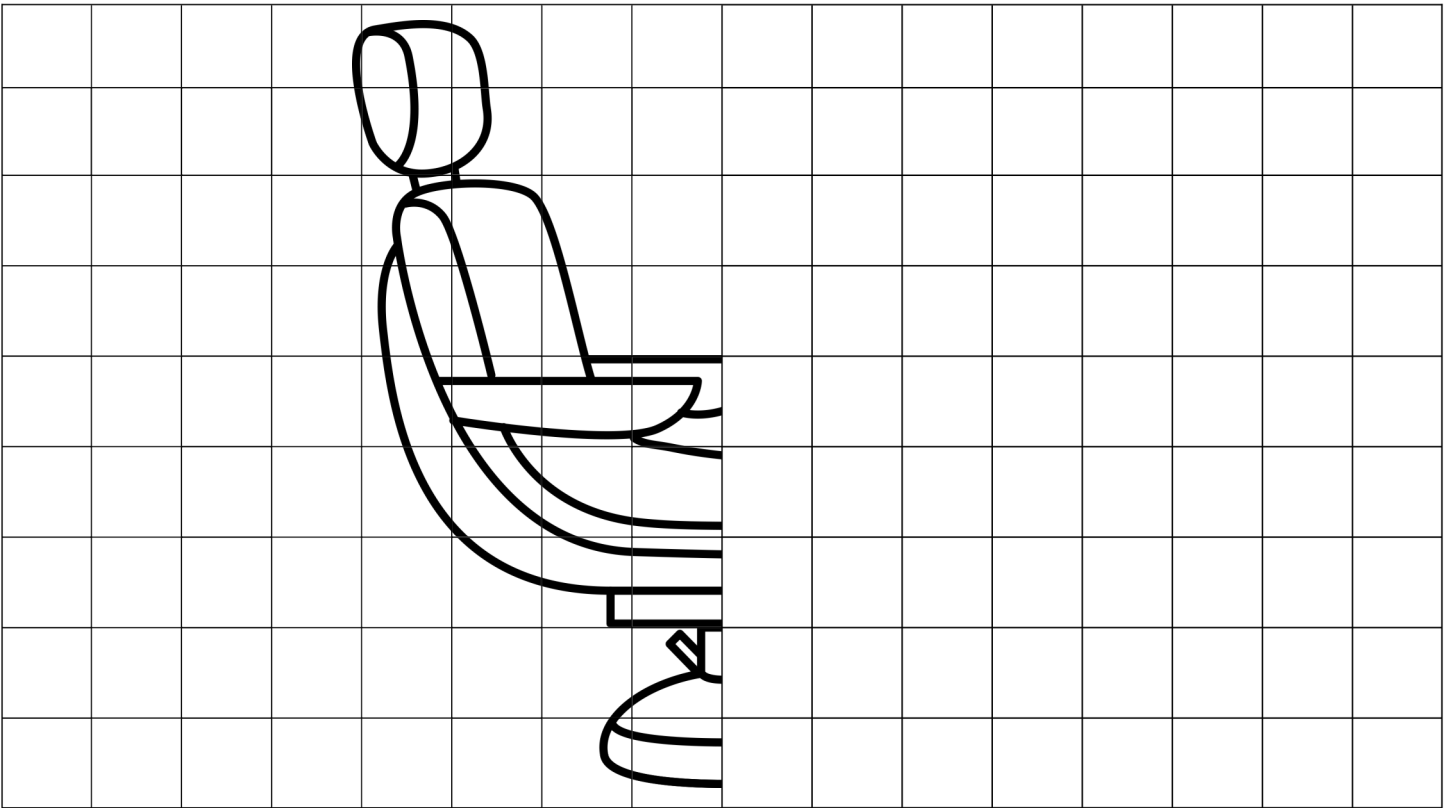
After the colonies were settled in the United States, some of the English who settled in America practiced dentistry. A man named Isaac Greenwood began to practice dentistry in 1779. He is thought to be the first dentist born in America. One of his sons, John Greenwood, was George Washington's dentist. As time went on, training for dentistry improved, with the first dental school in the United States being established in 1840. Advances came quickly, with anesthesia being discovered, new equipment being invented, and new materials being used. In 1890, when an American dentist proposed the theory that cavities were caused by bacteria, interest in oral hygiene became much more important. In 1913, the first college courses were offered in the United States for dental hygienists.

The chairs at most dentists' offices today are easily adjusted to lean a person back at the correct angle to allow teeth to be cleaned or worked on. They can be raised or lowered to move the person to the right height to make working on their teeth easier for the dentists. The dentists can not only see better to do their work, but they can also be in a more comfortable position if the work takes a longer period of time.

Follow these instructions to draw a picture of a dental chair on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Farmer

Farming is an occupation that has existed since the time of the ancient civilizations of the world. Farmers provide much of the food that is eaten by everyone in the world.

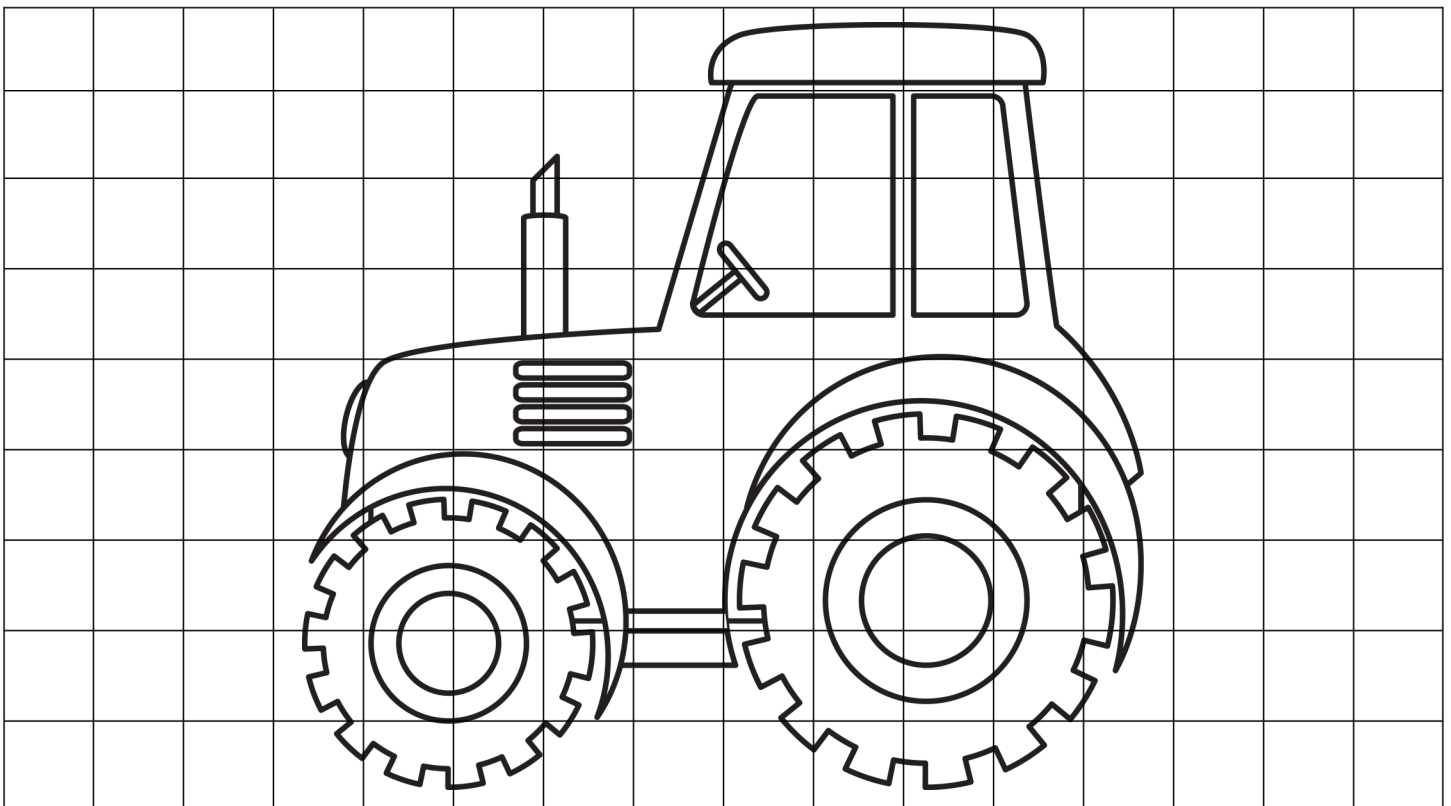
Farming requires much hard work. They need to take care of the soil and get it ready to plant. They have to plant the seeds and take care of the crops as they grow, making sure they have enough water and protecting them from weeds and insects. Finally, they have to harvest the crops to be used, stored, or sold. On some very small farms, much of the work is done by a single family and a few machines.

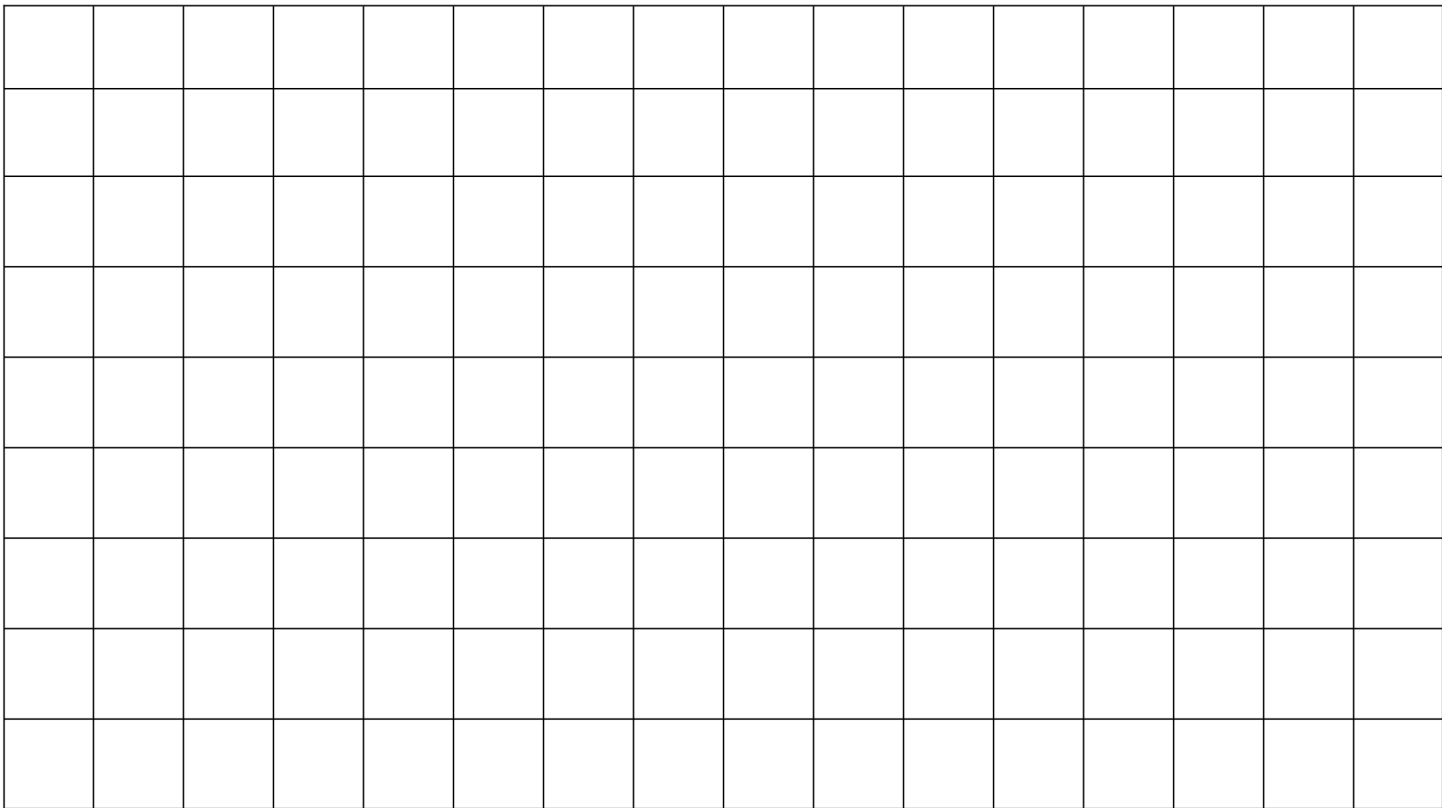
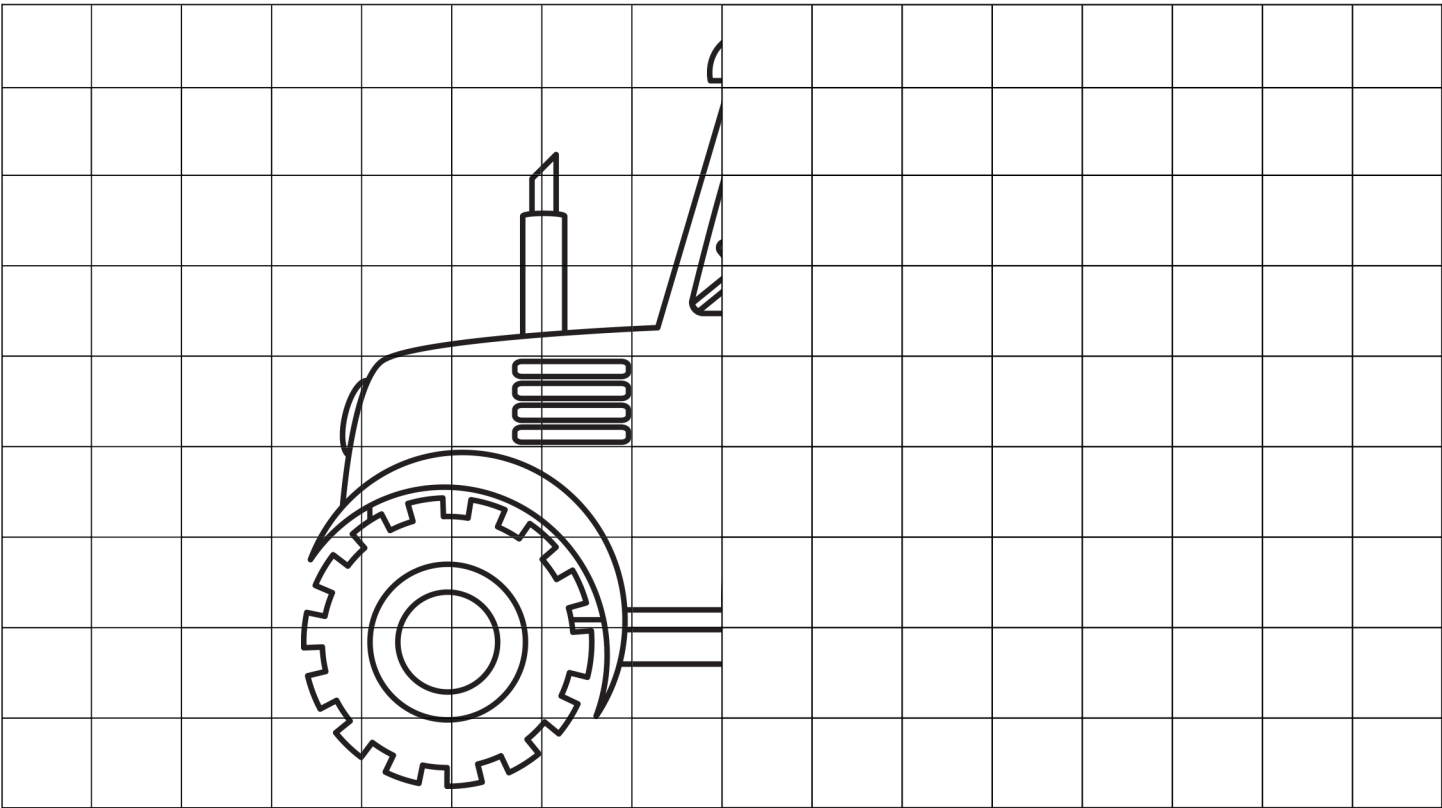
Many farms in the United States and other industrialized countries are commercial farms, which means the crops are sold for a profit and not grown just to provide for the family. They are often owned by one family, but sometimes families form partnerships or corporations. On these larger farms, equipment such as plows, harvesters, hay balers, and combines are often used. This equipment is sometimes used with a tractor.

There are many types of tractors. The most common type of farm tractor is the wheel tractor. This tractor has high wheels in the back and smaller wheels in the front. The wheels are spaced so the tractor can be driven between rows of crops. They are made in many different sizes so they can provide the right amount of power for different sizes of farms.

Follow these instructions to draw a picture of a tractor on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Firefighter

Firefighters are very important to communities. The first organized firefighting took place in ancient Rome. At that time, and for many, many years after, organized firefighters fought fires using bucket brigades. These brigades would pass buckets of water from one person to another from a nearby well to the fire. Other workers would pass the empty buckets back to be filled again.

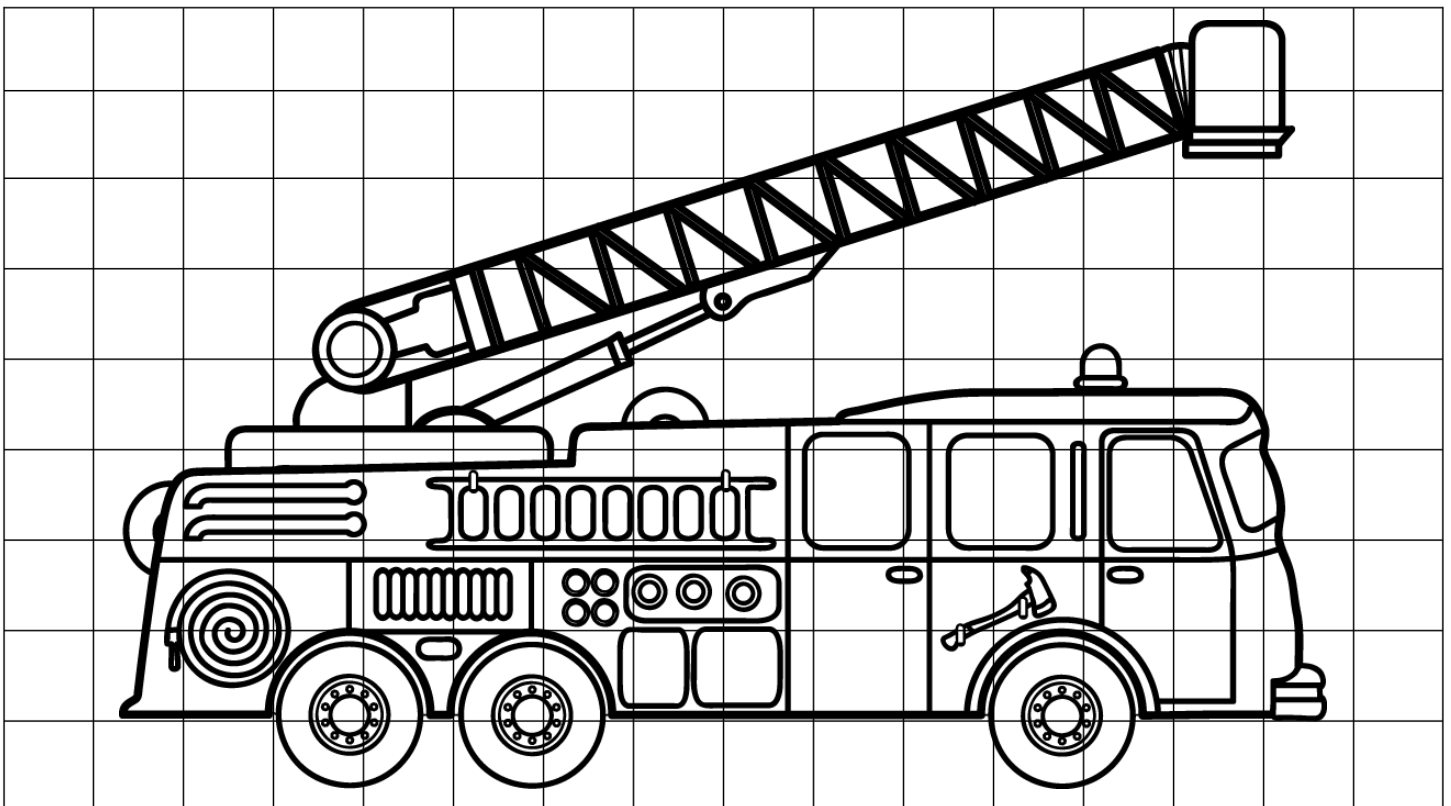
In the middle of the 1700s, the first practical fire pumps were available to fire companies in North America. These pumps had to be filled by hand and pumped by hand, but they could shoot water on a fire in a steady stream. They also allowed the firefighters to stay back at a safer distance from the fire.

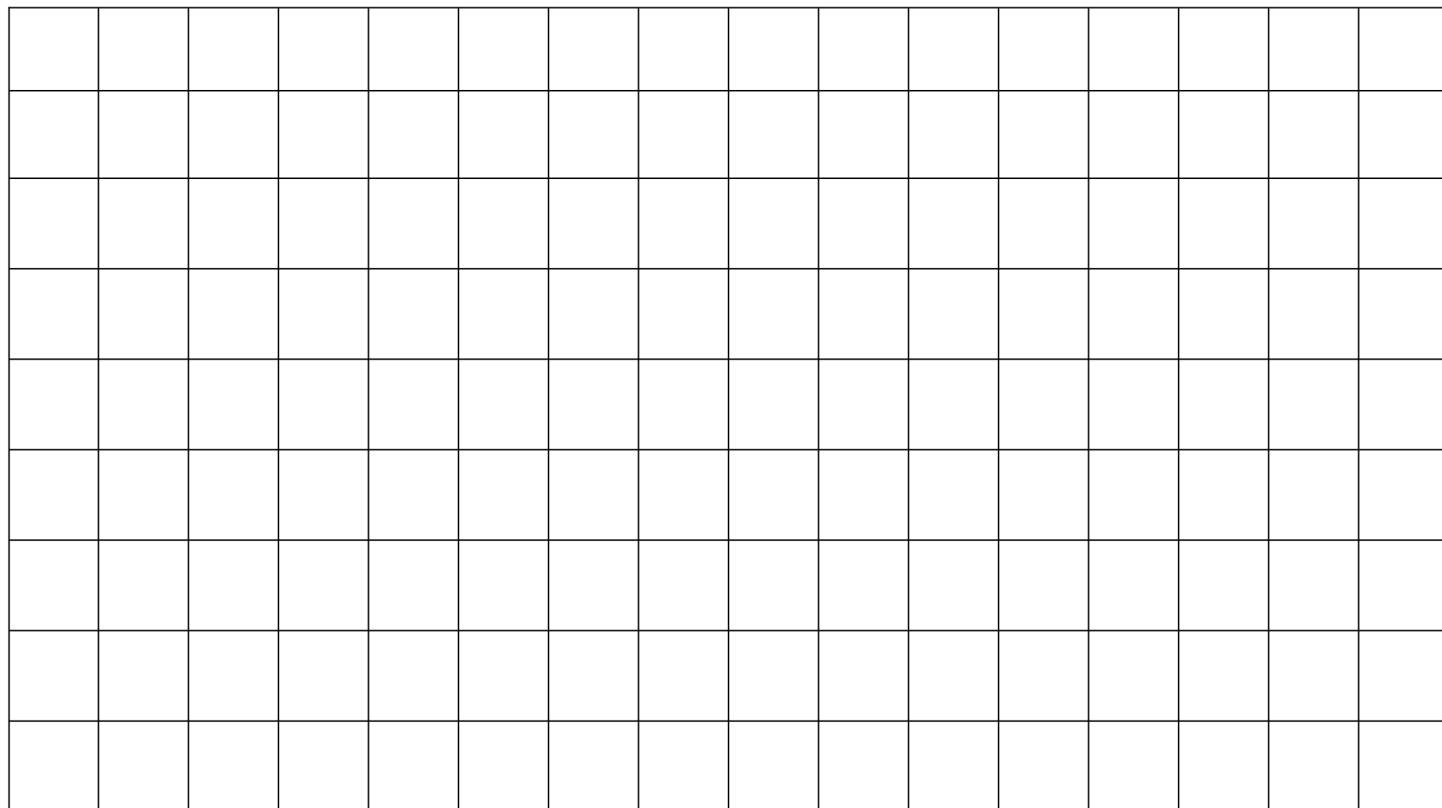
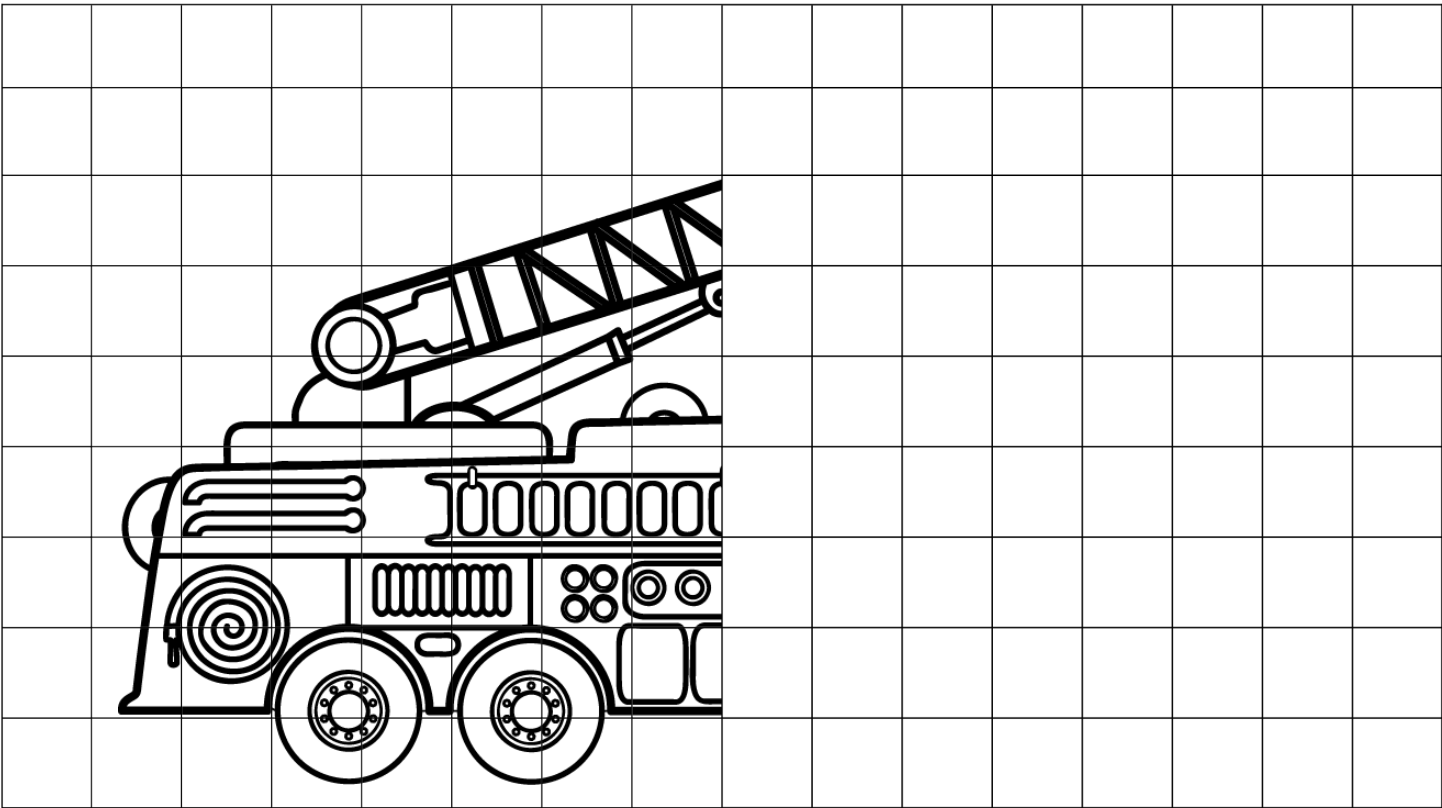
In the middle of the 1800s, steam engines began to be used. Horses pulled the pumps to the fire, and steam power worked the pumps. The first professional fire departments also began at this time.

Modern fire trucks are used today that help put fires out more efficiently than in the past, but fires are still a very serious and dangerous problem. There are different types of fire trucks. Some engines have large pumps to use the water from fire hydrants. Ladder trucks lift firefighters up to fight fires on different levels of a building.

Follow these instructions to draw a picture of a fire truck on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Hair Stylist

Styling hair has been popular since ancient times, though hair styles have changed a lot through the years. Early civilizations such as the Germanic peoples, the Angles, the Saxons, and the Gauls dyed their hair colors such as blue, green, orange, and red.

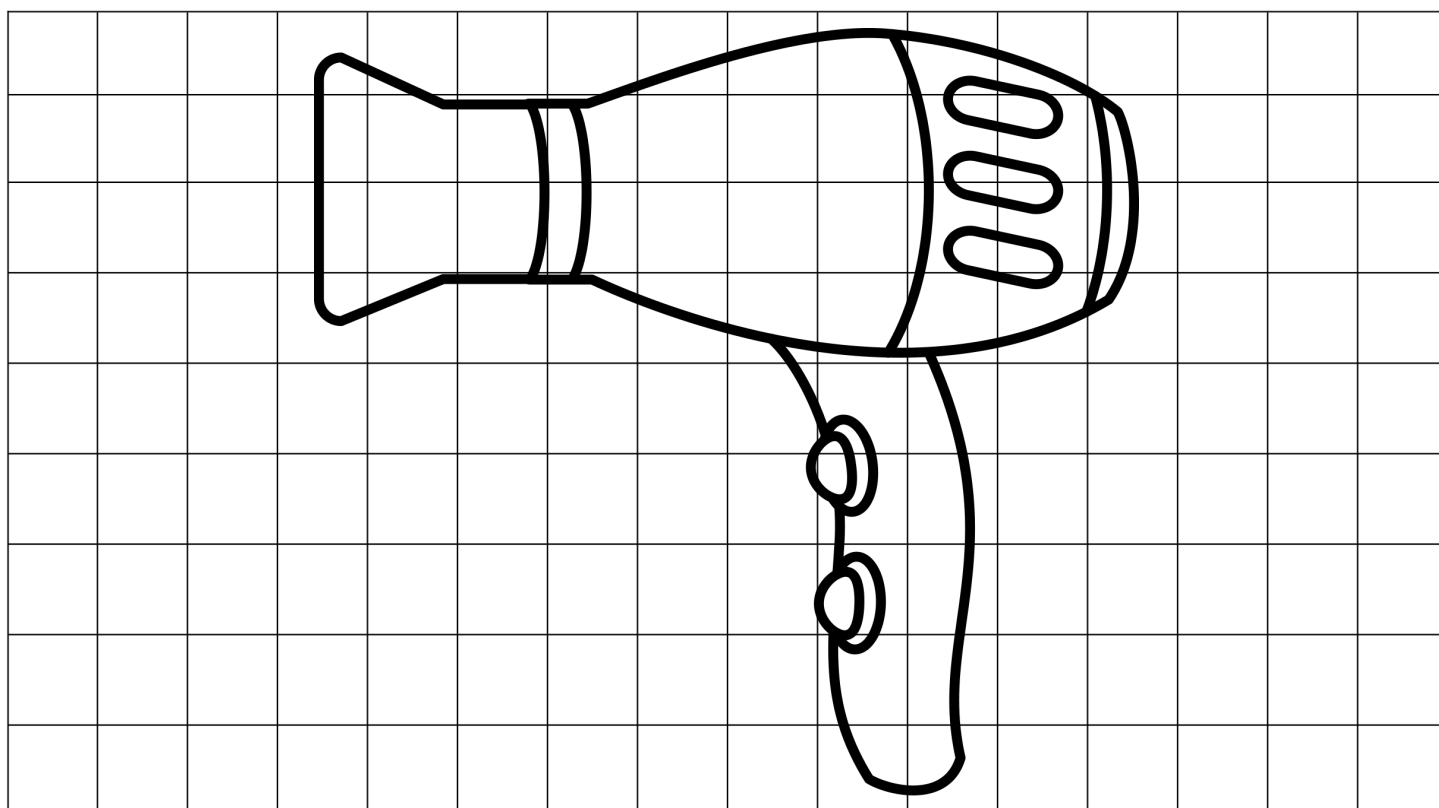
Women in the Middle Ages wore their hair a little long, and during the Renaissance, many women had long braids that reached their knees. Men usually wore their hair no longer than their shoulders, but as of the time of King Henry VIII, they were ordered to wear their hair short. In the 1600s, many men wore long curly hair or wigs. Some men, such as the Puritans, however, cut their hair very short.

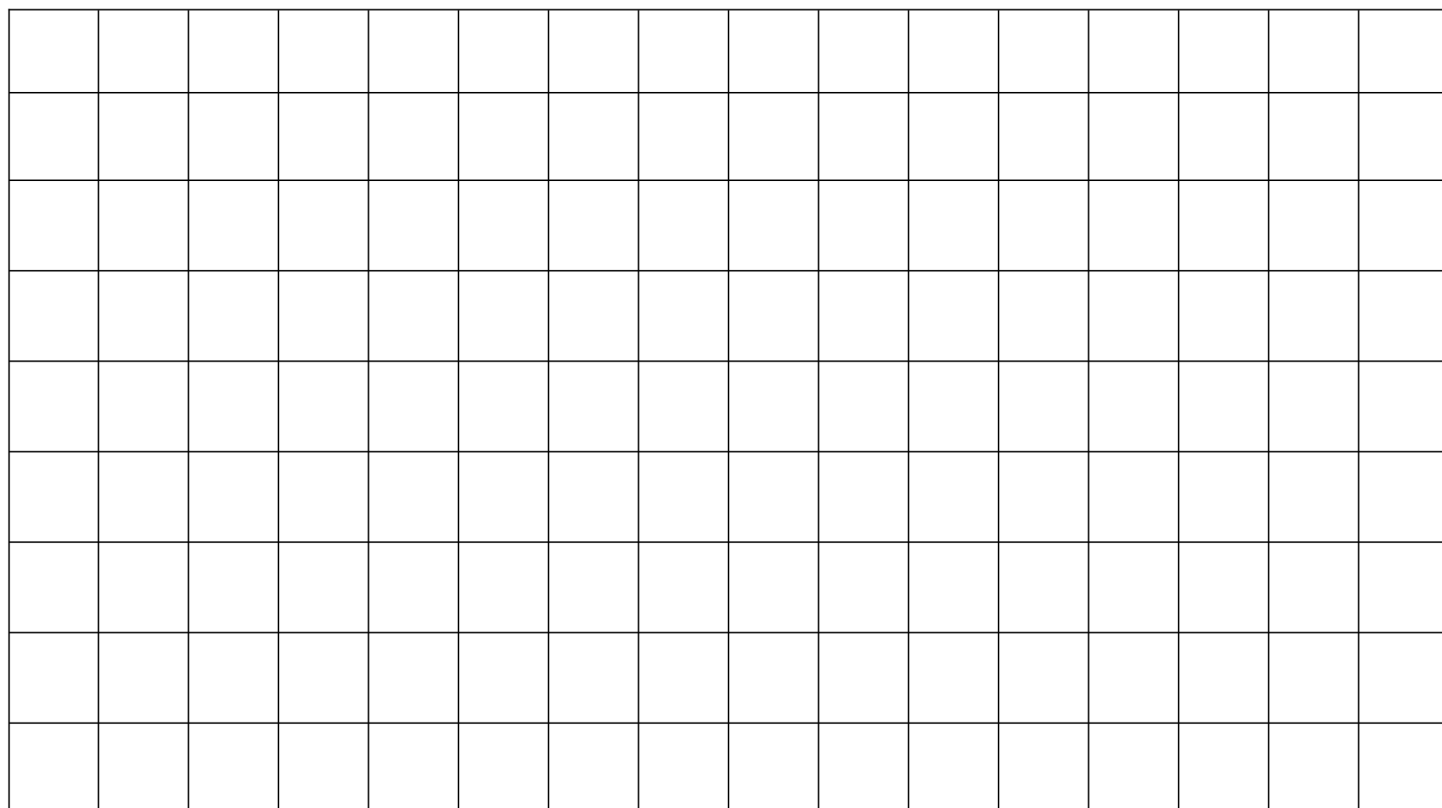
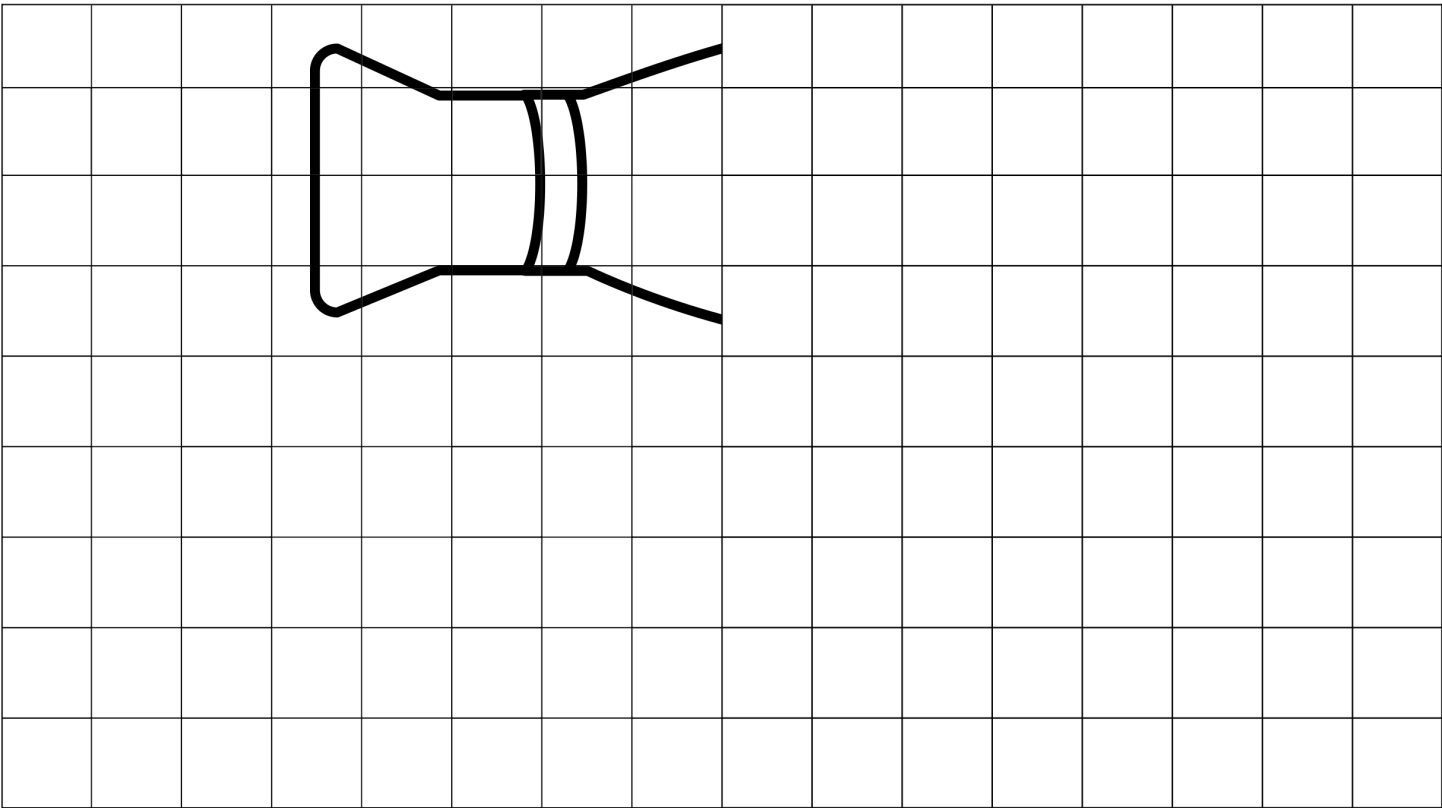
In the 1700s, men who could afford it often wore powdered wigs. Women who could afford to have someone style their hair wore theirs piled on top of their heads, sometimes up to 2 feet (60 centimeters) high. In the 1800s, styles became much simpler for both men and women, and during the 1900s, styles changed often, but many remained simple.

Regardless of the style or the length, hair needs to be kept clean and brushed. Hair stylists often do haircuts, coloring, or other styling work that people want, but most people still do the regular washing and drying at home. One of the tools you might need for this is a hair dryer. Hair dryers have changed over the years, but today, they are very portable and easy to use.

Follow these instructions to draw a picture of a hair dryer on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
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Lifeguard

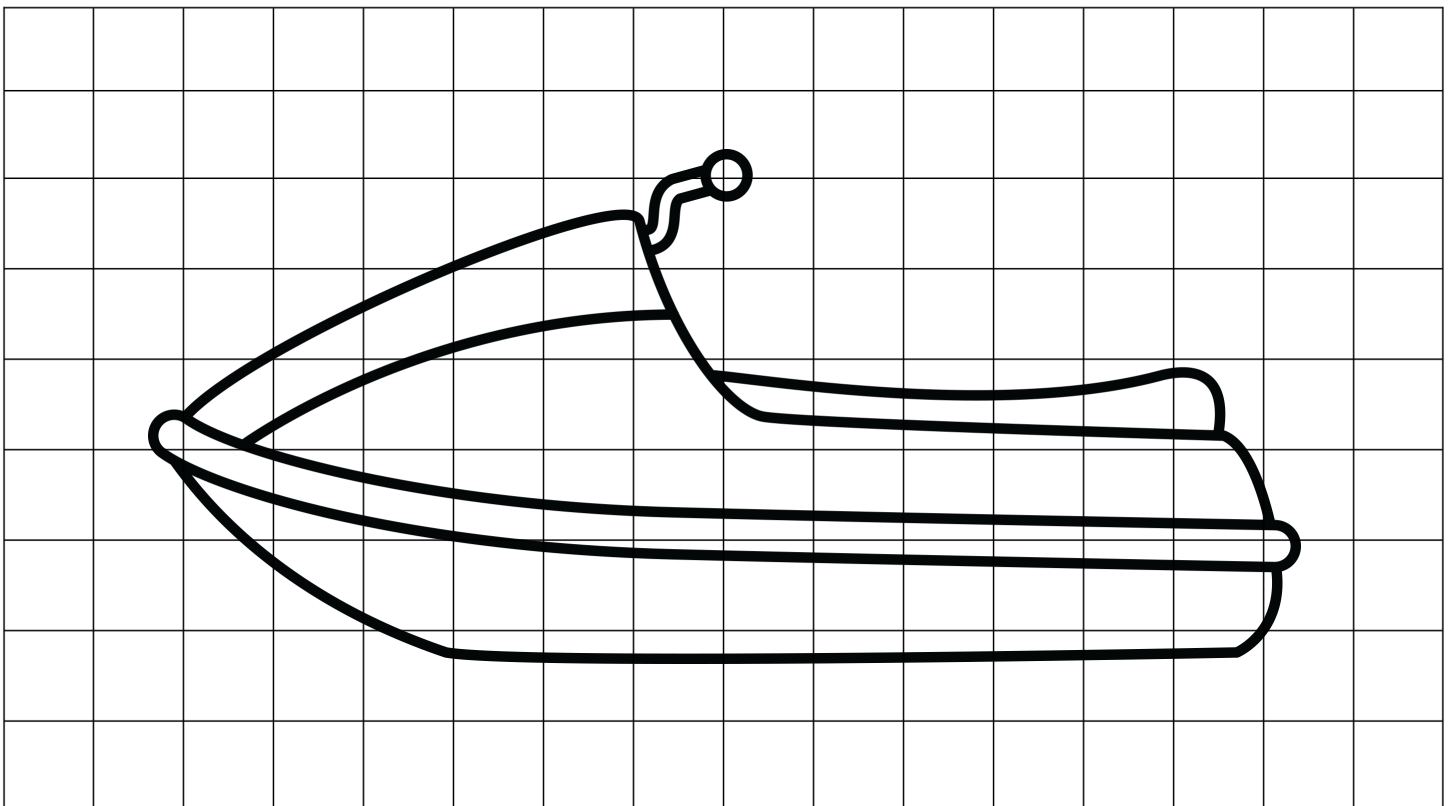
Lifeguards serve at many different swimming areas to help protect swimmers from danger. To get any type of job as a lifeguard, you have to pass a swimming test. The distance of the swimming test can vary depending on what type of certification you are interested in. Along with passing a pre-course swimming test, there is also a certain age requirement for being a lifeguard.

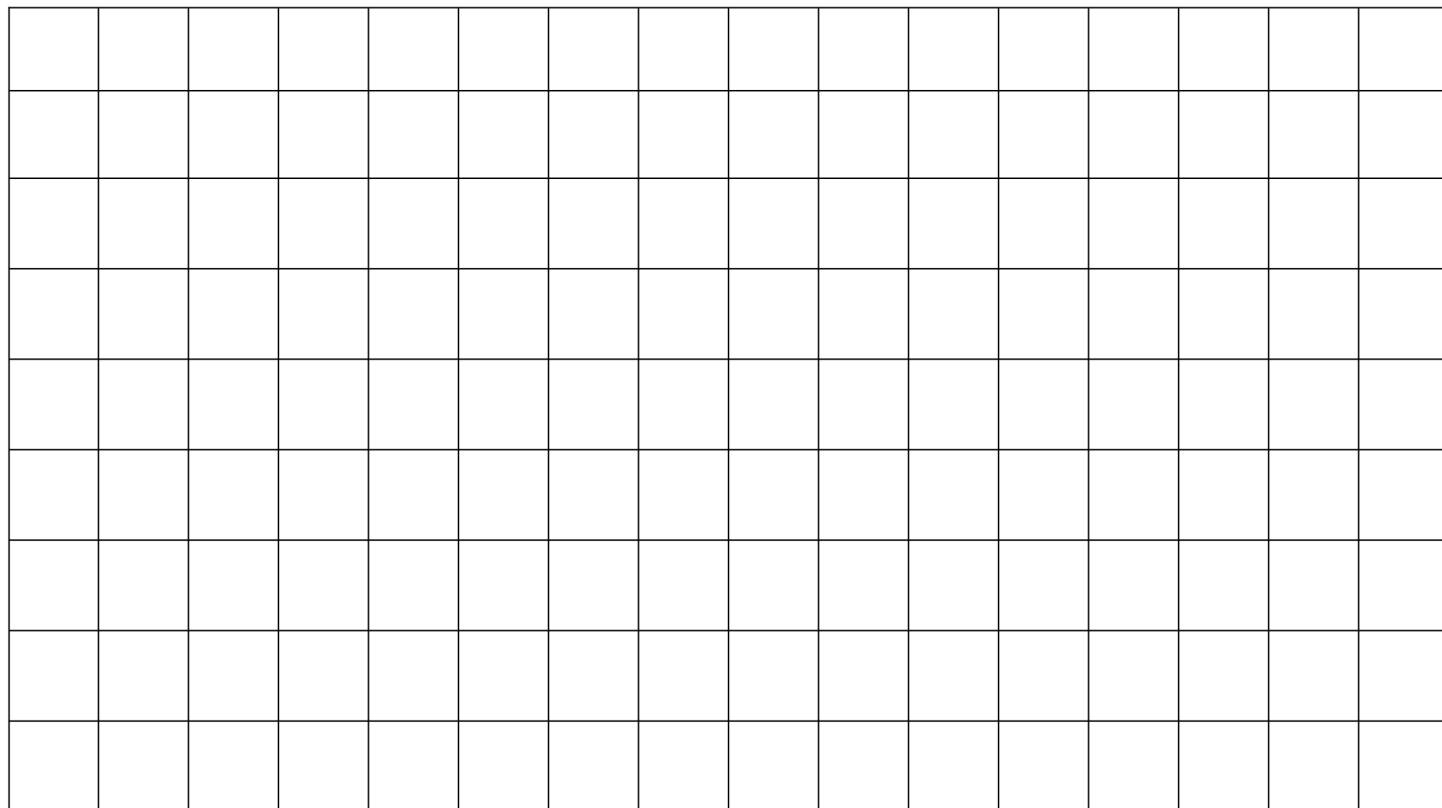
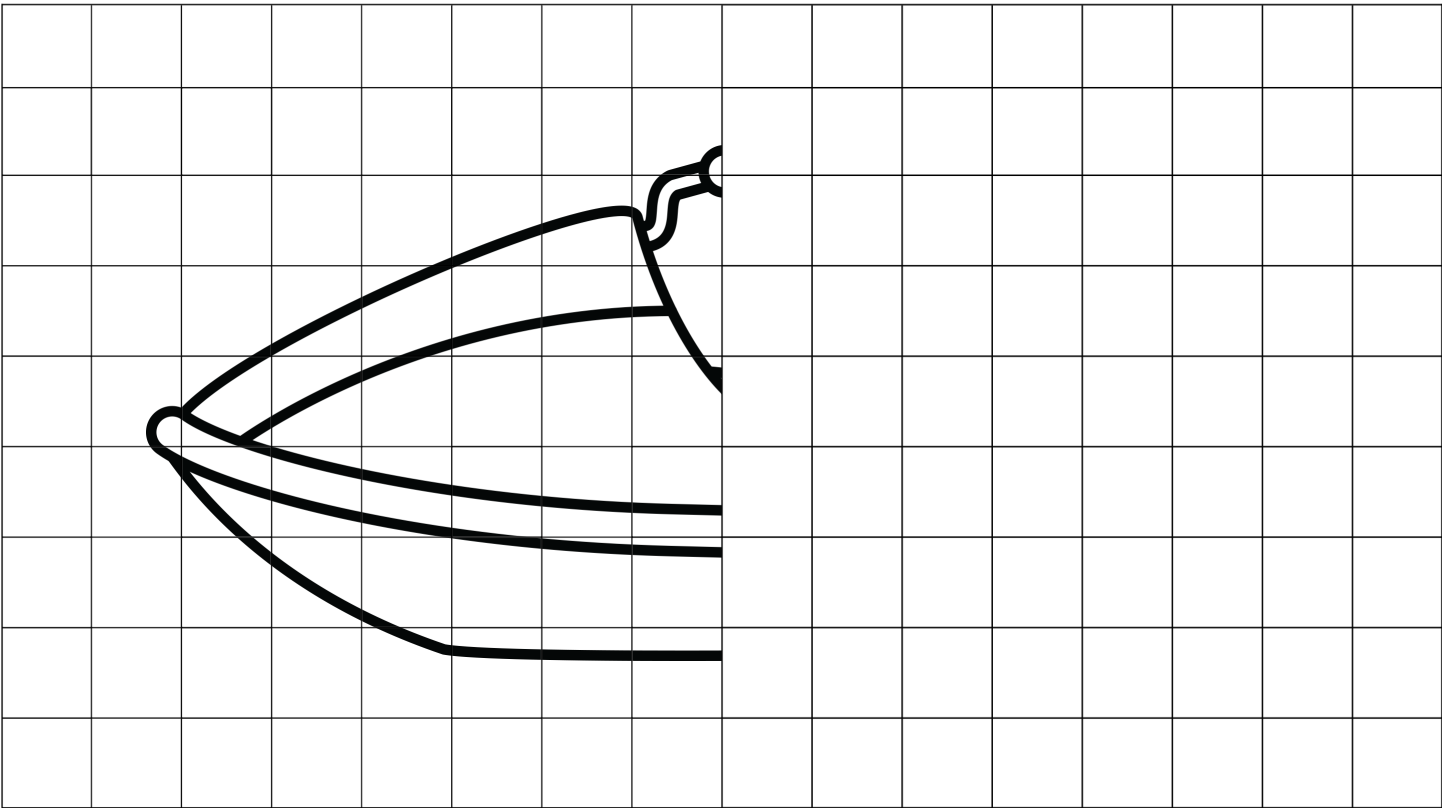
Along with swimming ability and age requirements, there are other requirements often needed, which involve classes and tests, both written and hands-on. Some of the areas covered in the classes and tests include first aid and CPR. Training includes not only how to rescue people who are in trouble but also how to make an area safer for swimming and how to work in teams for the benefit of the people you are trying to help.

If you are trying to be certified as a lifeguard for ocean swimming, there are sometimes difficult swimming ability requirements, such as a being able to swim a distance of 1,093.5 yards (1000 m) in the ocean. There are also written tests involved. Training after getting this far can include many hours of classes. One of the tools some lifeguards use in the ocean is a jet ski. Jet skis move forward by sucking water in and then forcing it out. They use a throttle to make them accelerate. They do not have brakes, but many have a type of reverse that can make them move backward.

Follow these instructions to draw a picture of a jet ski on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Mechanic

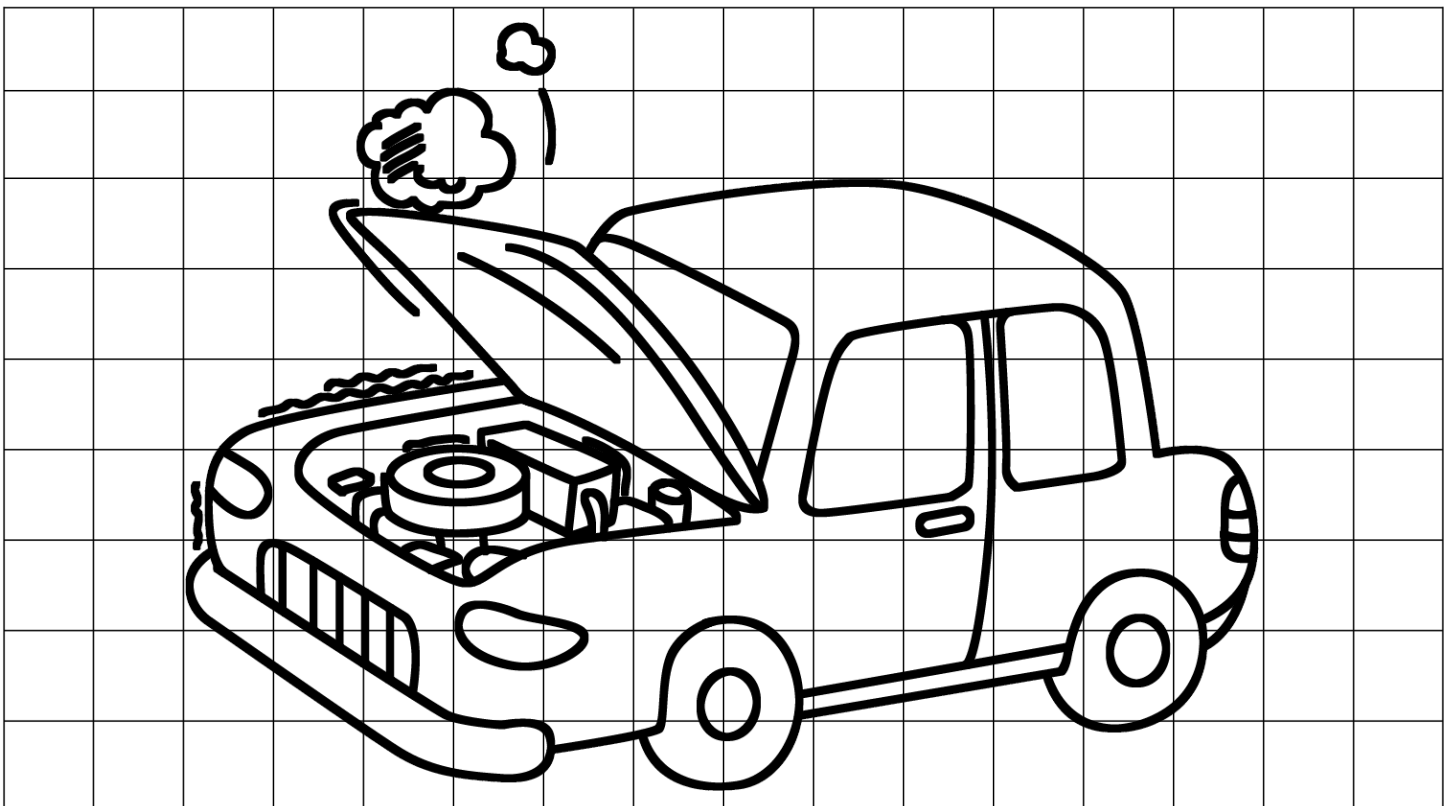
An automobile mechanic can also be referred to as an automotive technician or a service technician. They often work on many different parts of the vehicle, such as the engine, transmission, steering, brakes, and more. Because vehicles are changing so rapidly, more and more automotive technicians are becoming specialized. It is common to find technicians who specialize in working on brakes, those who specialize in working on transmissions, etc.

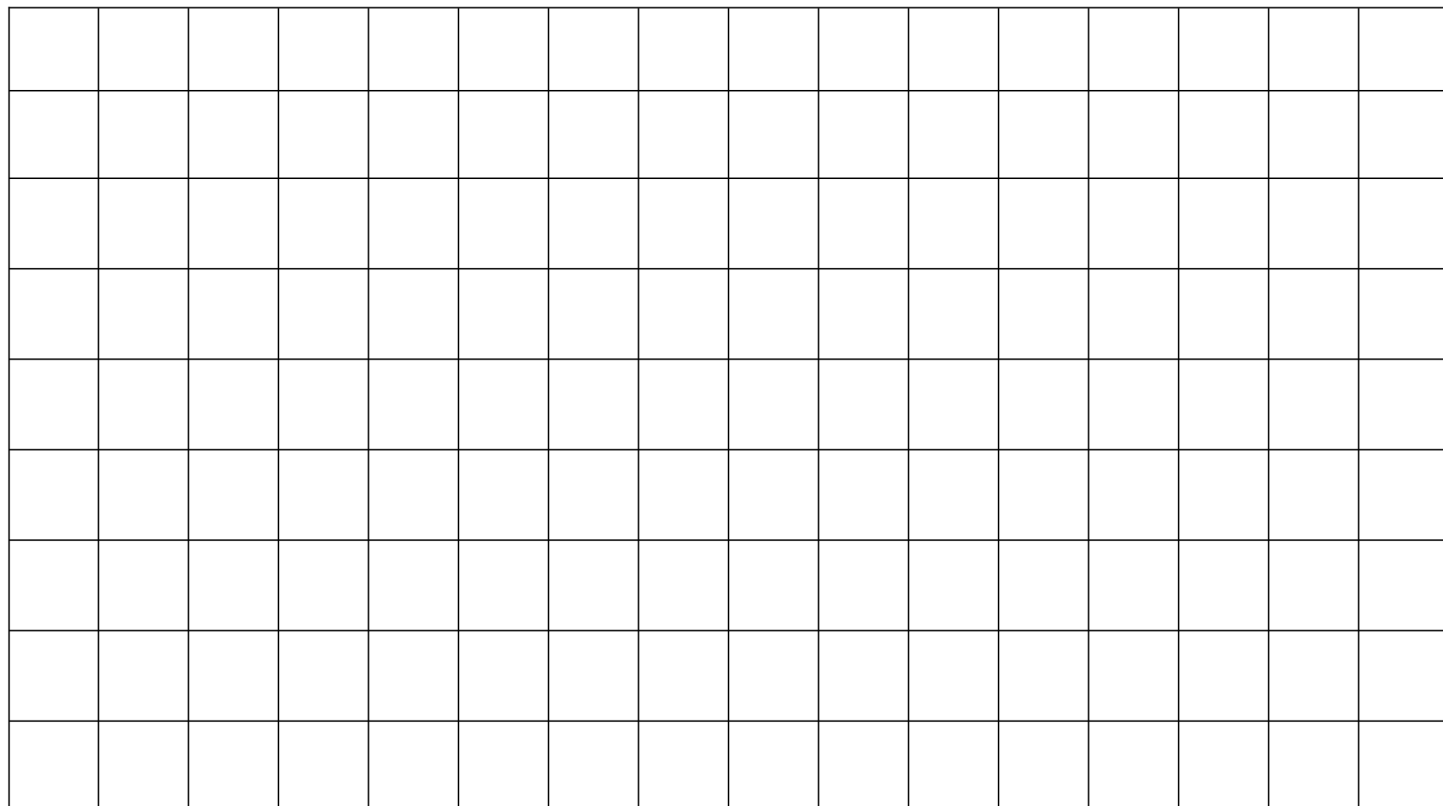
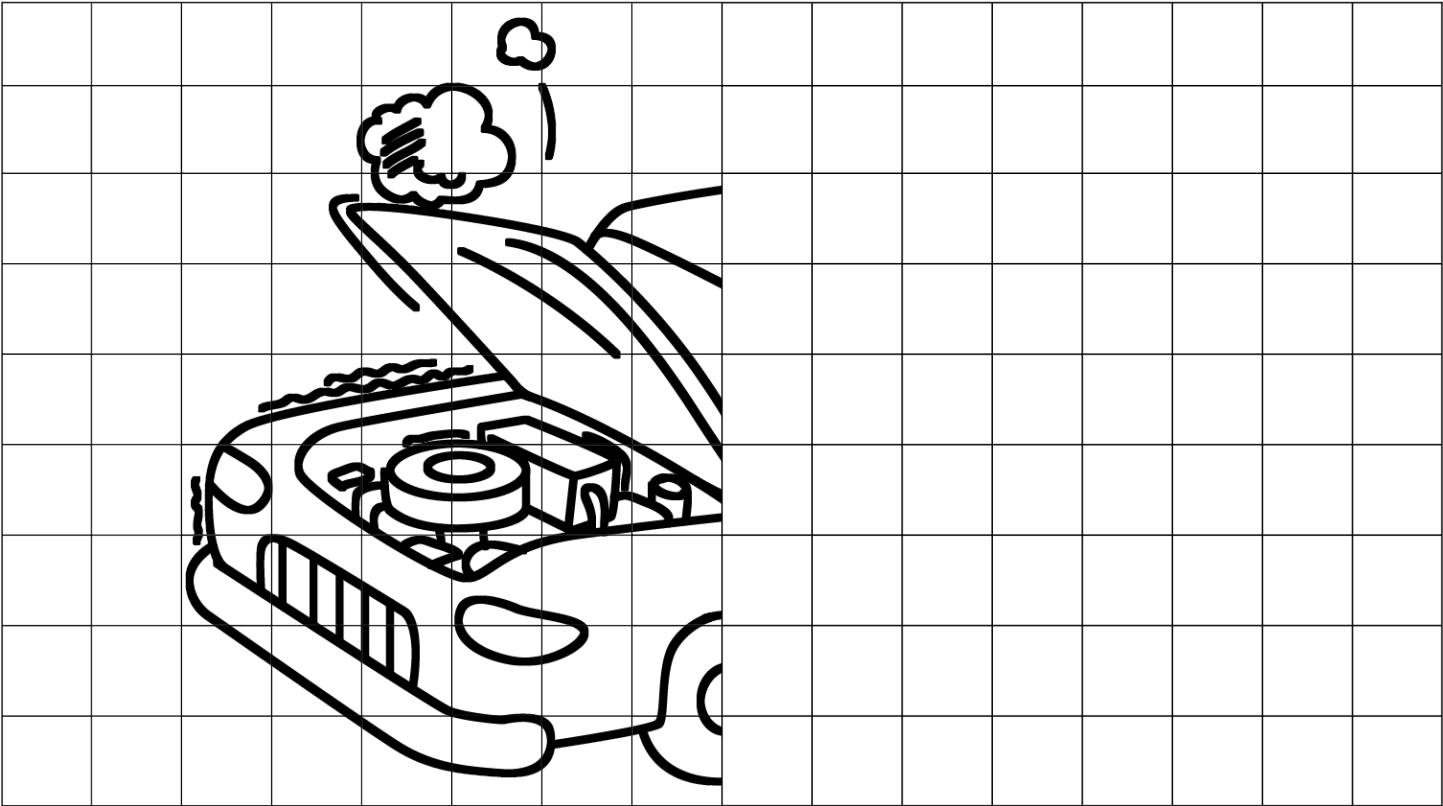
Whether specialized or not, a technician needs certain qualities. First, you must be able to diagnose and solve problems. You need to be able to look at what is wrong and follow the clues to determine the cause. Even though technicians can use a computer to diagnose many problems today, there are still problems that require the technician to understand the ins and outs of a system. They need to know what they're working with and be patient enough to find out exactly what is causing the problem and determine the best way to fix it.

Vehicle technicians also need to be very good at communicating with customers. They need to be able to explain exactly what the problem is to the customer and what the repair options are, even if the customer isn't car savvy. Vehicle technicians can also help recommend a routine maintenance schedule to help customers keep their vehicles in good shape and reduce the chance they will suddenly break down along the road because of a problem that should have been caught earlier.

Follow these instructions to draw a picture of an automobile on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Police

Police officers have the hard job of trying to make sure the laws are obeyed and that order is kept in communities. They often help people with various problems and are there to provide assistance when needed for emergencies such as floods, fires, accidents, and much more.

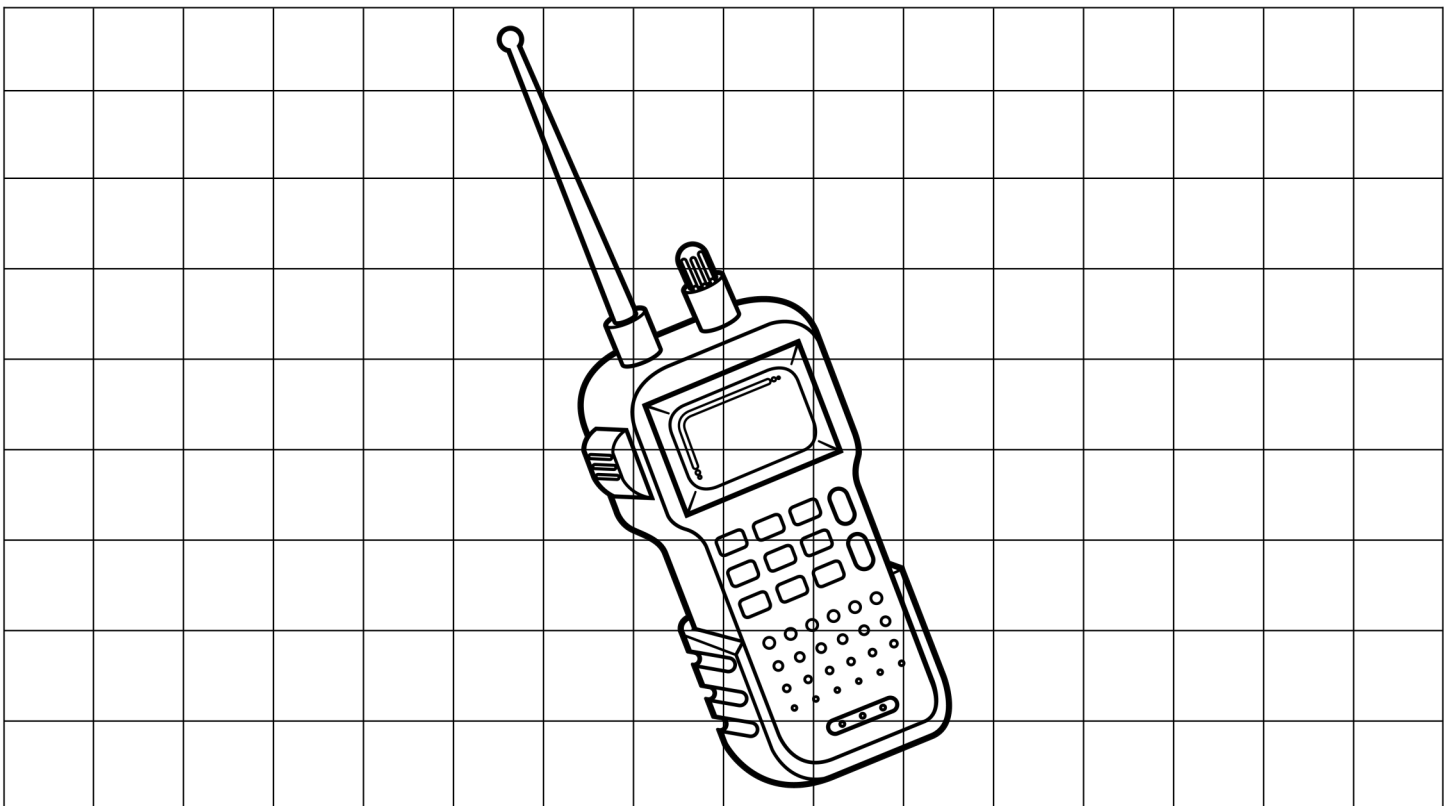
Many police officers serve as patrol officers. They have a certain area or route they are assigned to survey repeatedly over a period of time. They often carry a two-way radio to keep in touch with dispatch. The dispatcher can then tell them if there is a problem someplace where they are needed to assist, such as an accident.

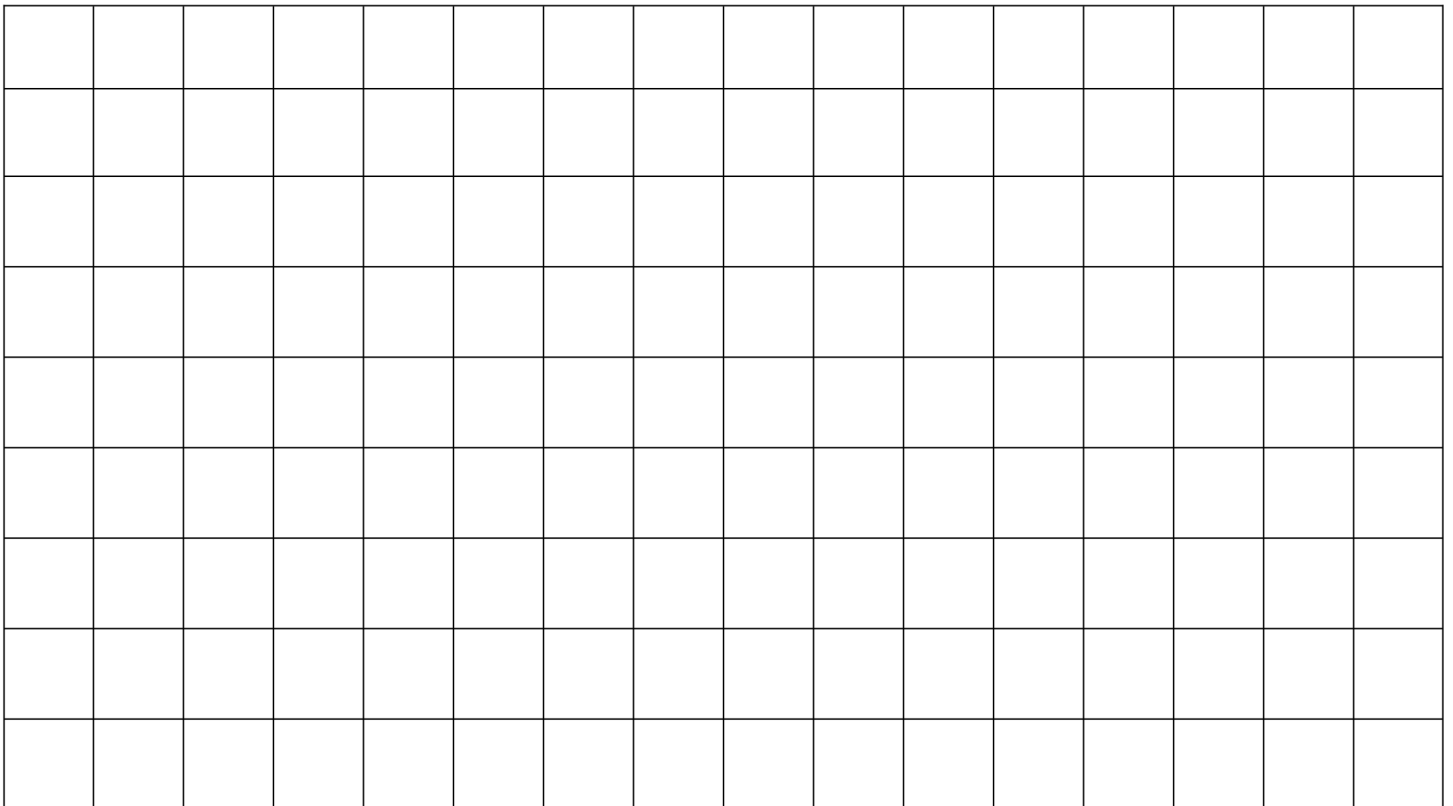
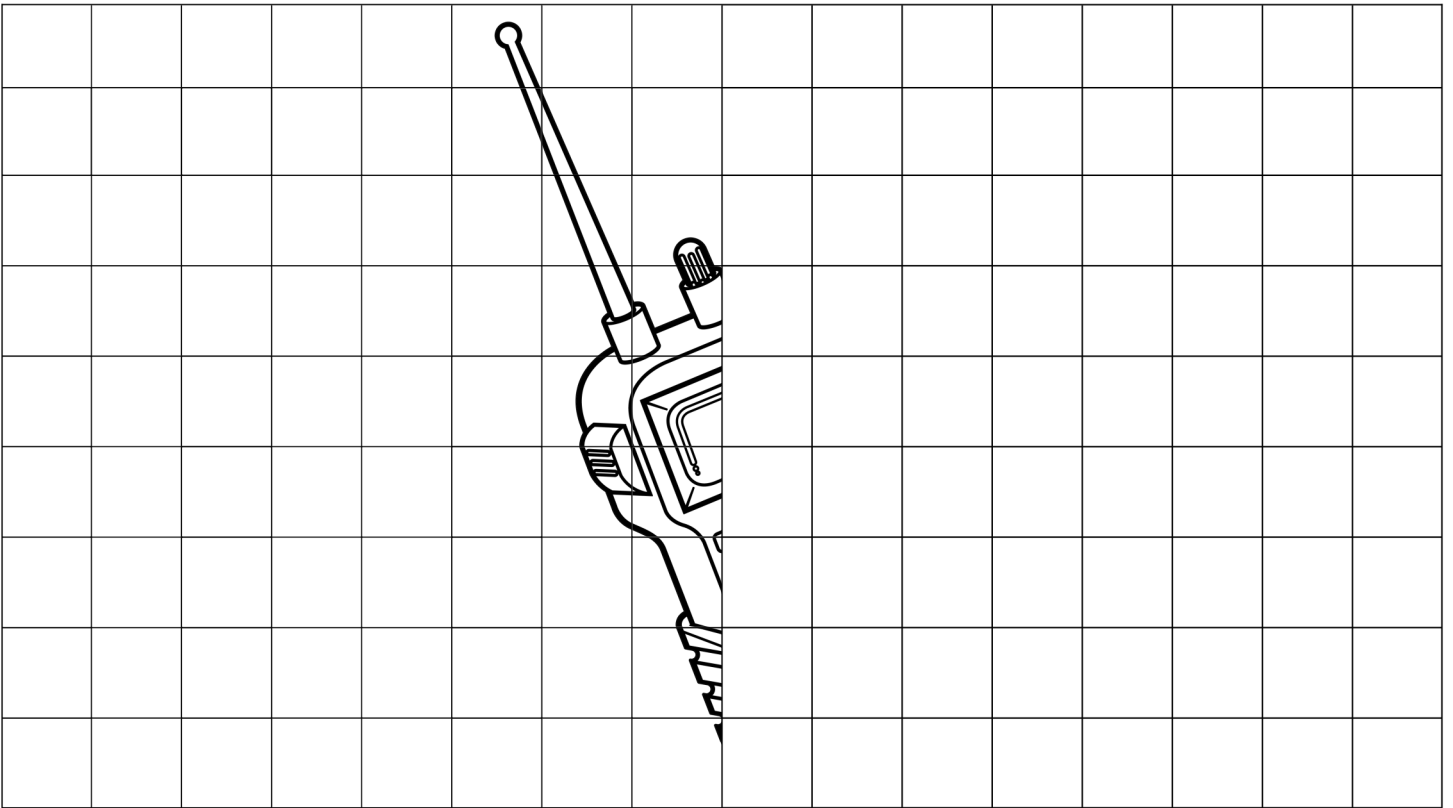
There are many other types of police officers, such as traffic officers, detectives, those assigned to gather information about a crime in order to help solve it, those working with juveniles, and bomb squads. There are also police officers on search-and-rescue teams, hostage negotiating teams, and computer crime specialists.

Police officers who care about people are hard at work in many areas to help keep people safe and protect them, fulfilling the motto that many police departments have adopted, "To Protect and to Serve."

Follow these instructions to draw a picture of a walkie talkie on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Postal Worker

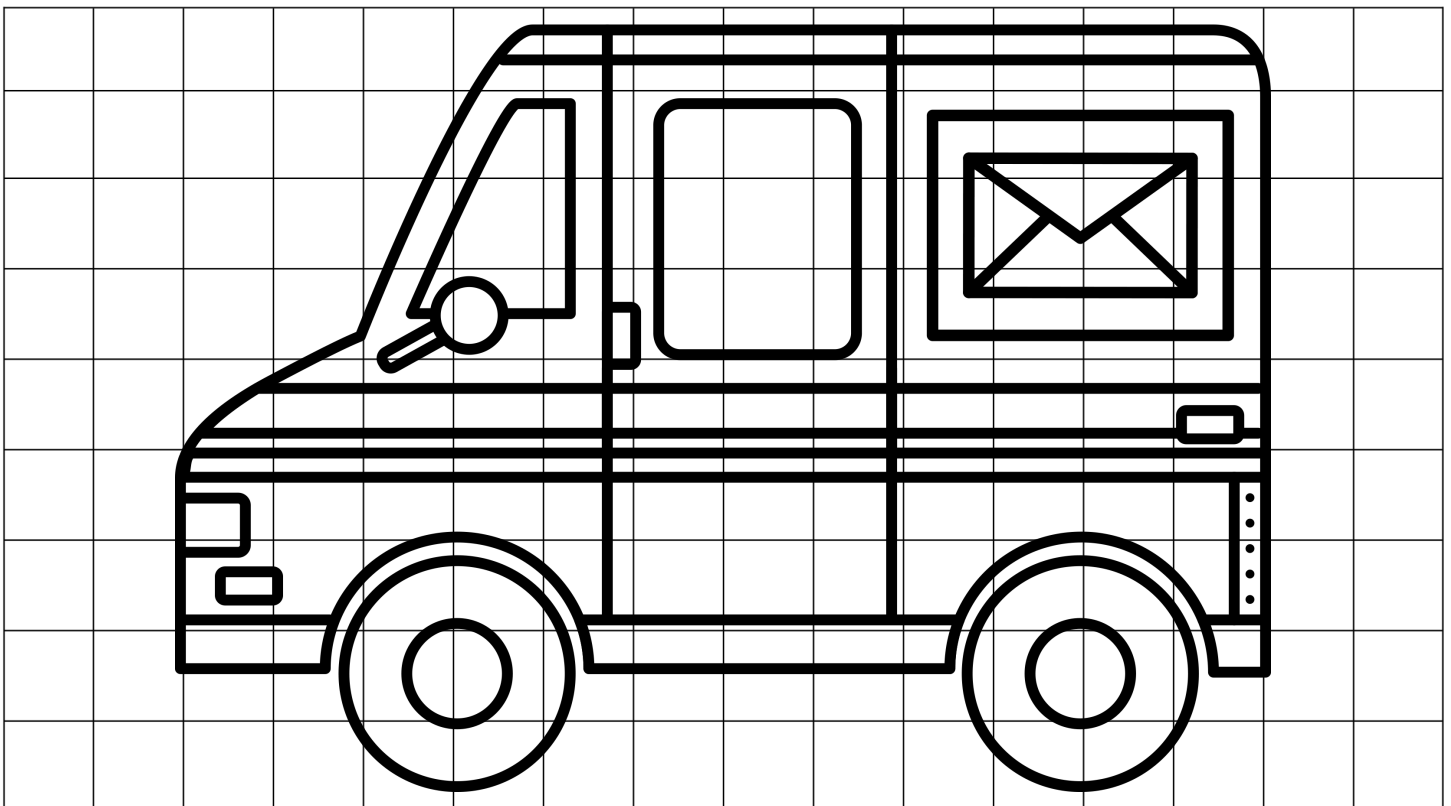
The United States Postal Service is one of the largest organizations in the world and employs hundreds of thousands of people. The first type of postal service appeared in America during colonial times in 1639 in Boston, Massachusetts. Later, in 1753, Benjamin Franklin became a deputy postmaster general for the colonies. He made many improvements to the postal system. After the Revolutionary War began, Benjamin Franklin was named the first postmaster general of the United States. After the Constitution was adopted, Samuel Osgood was named postmaster general.

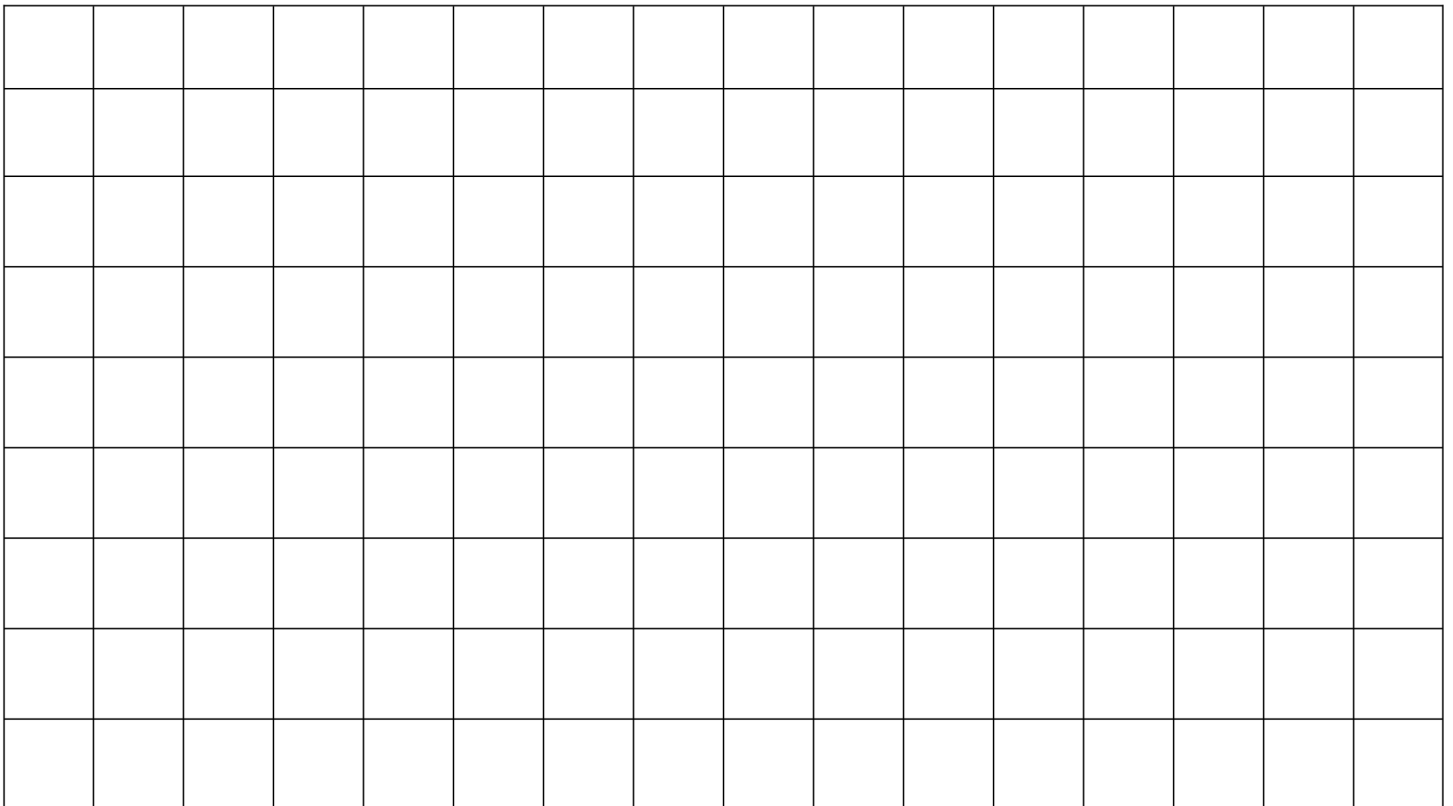
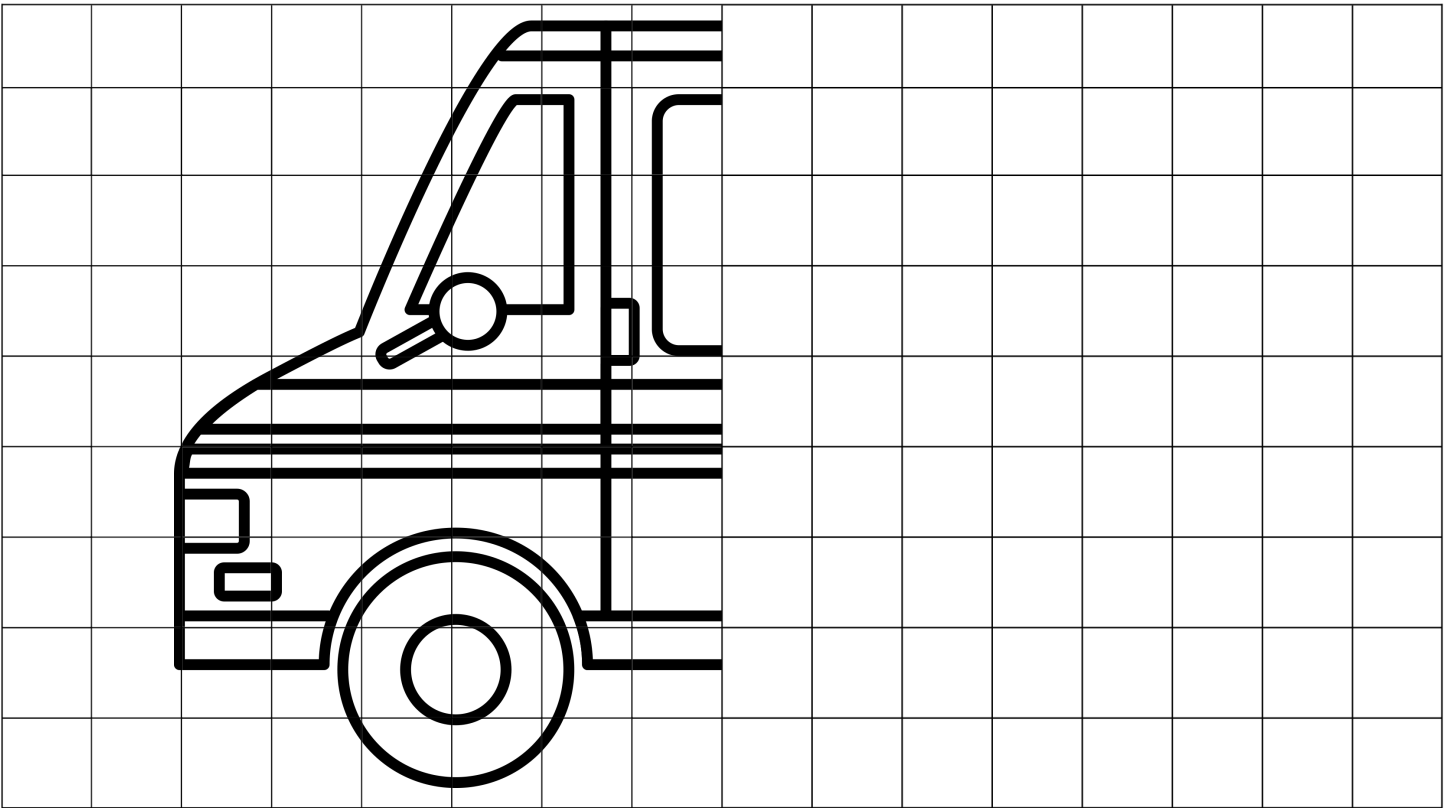
The first postage stamps were issued in the United States in 1847. In 1860 and 1861, the pony express served the postal service by carrying mail from St. Joseph, Missouri, to Sacramento, California. It took about ten days to make this trip, and it was very dangerous. When the transcontinental telegraph was completed in 1861, the pony express was no longer used. Improvements to the postal system were made over the years. In 1918, they started using airplanes to regularly carry the mail.

The Post Office used to be a part of the government, but on July 1, 1971, the independent United States Postal Service began operating under the United States government. Much of the work of processing mail has since been automated, but thousands of postal workers are still needed to deliver the mail to your home everyday, no matter the weather or challenges.

Follow these instructions to draw a picture of a mail delivery truck on the next page like the one shown below:

- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.





Scientist

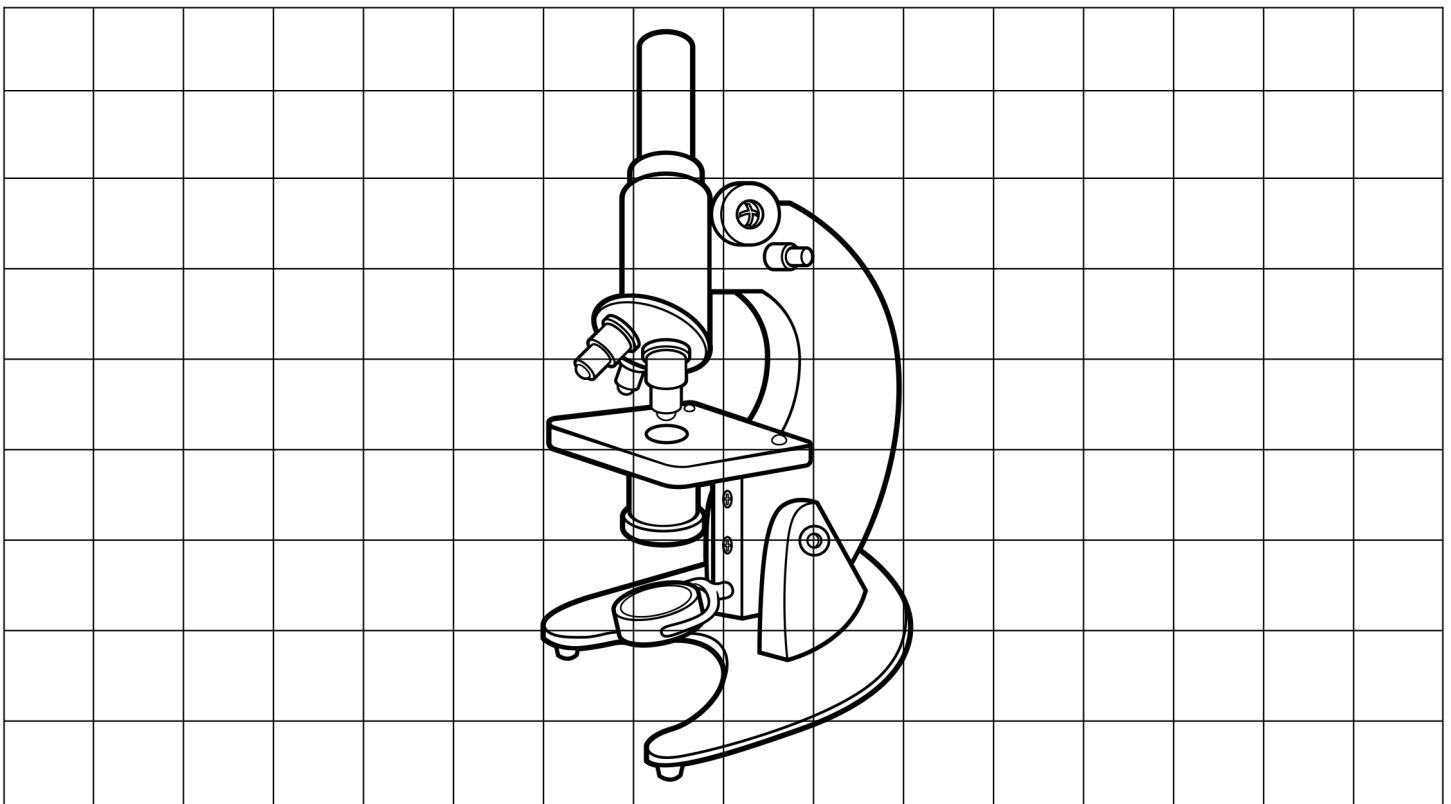
Scientists study science, which is a way of learning something based on observing facts and testing to find out how the facts relate and what they mean. Scientists use many different tools to study and observe.

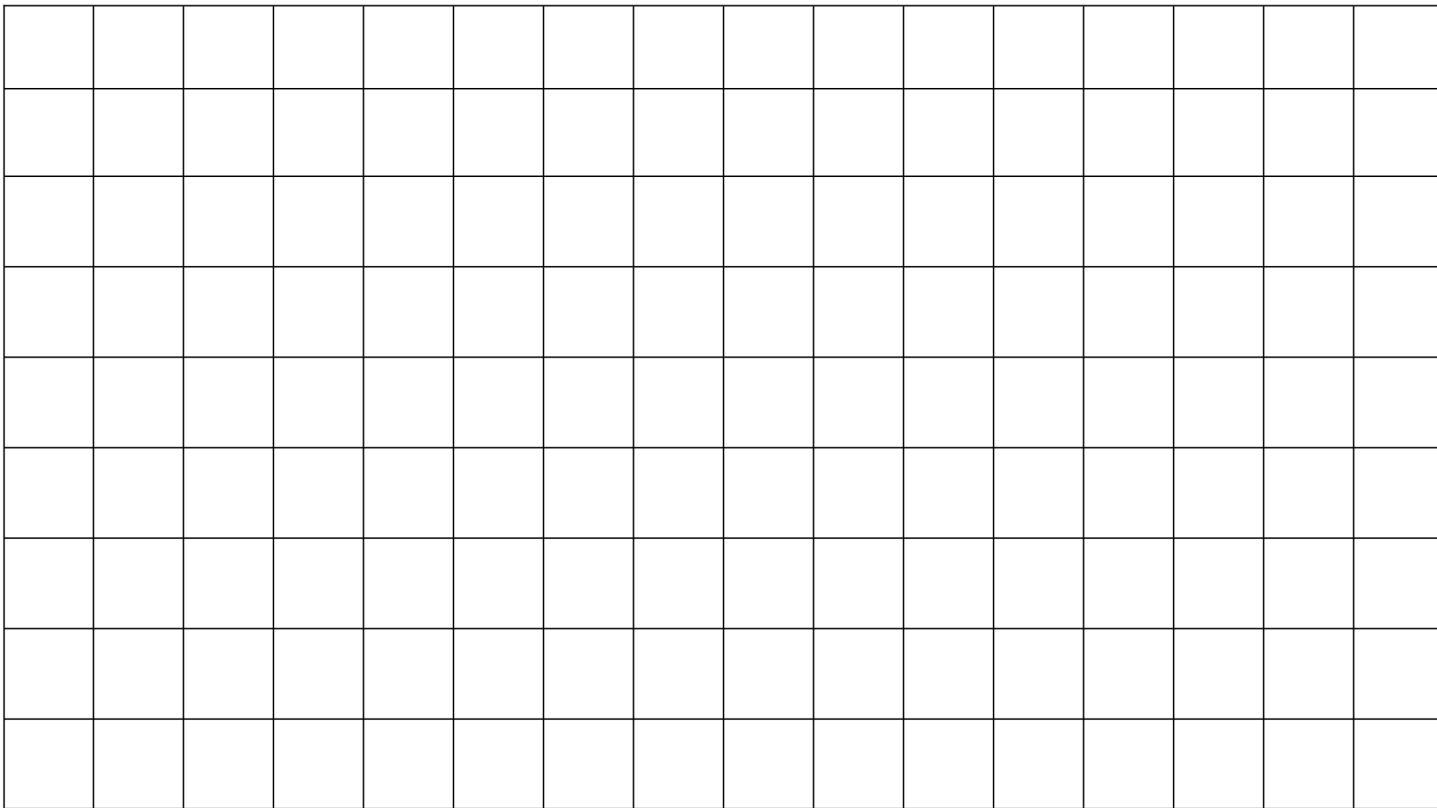
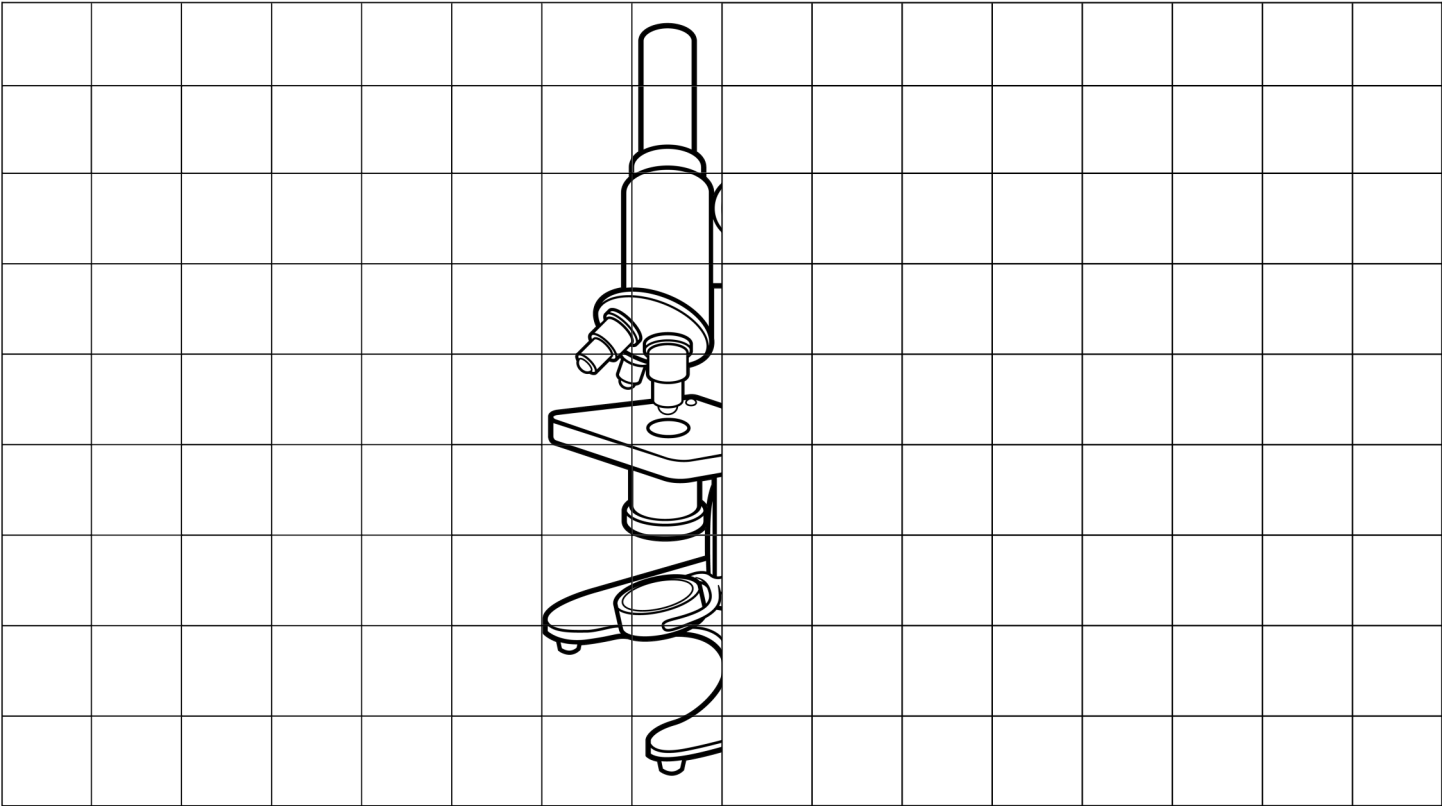
Scientists make many observations and collect facts about what they are studying. Then, they develop a theory or hypothesis, what they think might explain what they are seeing. From there, scientists test their theories over and over again to see if they are correct. From there, the theory must be checked and tested by other people who do research to verify it or challenge it.

Science is always correcting and updating itself. As new ways of testing what is believed to be correct are found, new theories are developed and new ideas are thought to be true. For example, ancient scientists thought that the sun and planets moved around the earth. However, a scientist named Nicolaus Copernicus presented the idea that the earth and other planets revolved around the sun. That theory has been proven to be true, and what used to be believed has been proven to be incorrect.

Follow these instructions to draw a picture of a microscope on the next page like the one shown below:

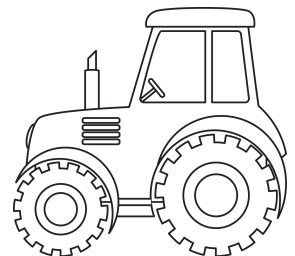
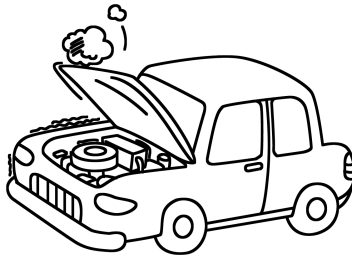
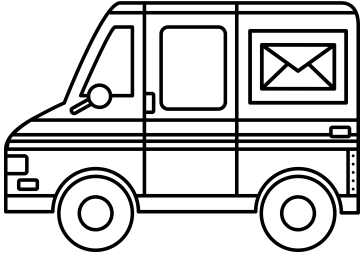
- In the first grid, draw the half of the picture that is missing.
- In the second grid, see if you can draw the entire picture.



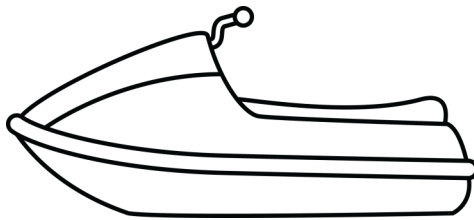
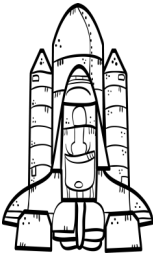


Identify the Piece of Equipment

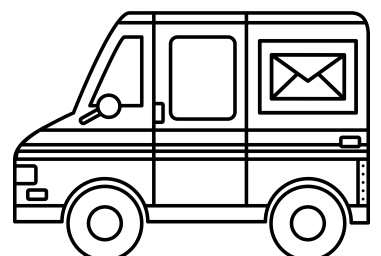
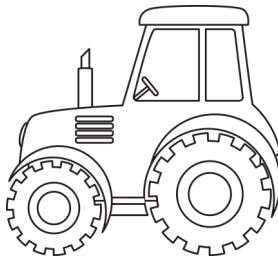
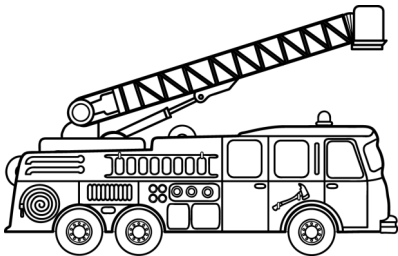
1. Which picture shows a tractor? Circle it.



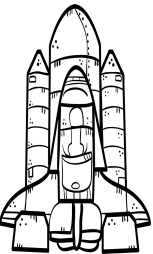
2. Which picture shows an jet ski? Circle it.



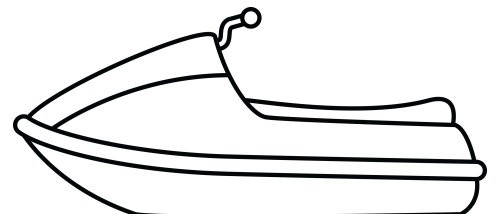
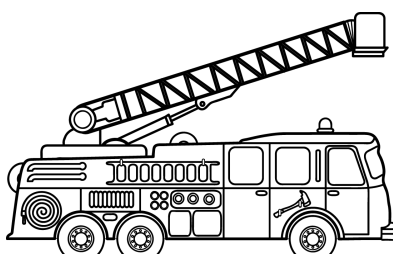
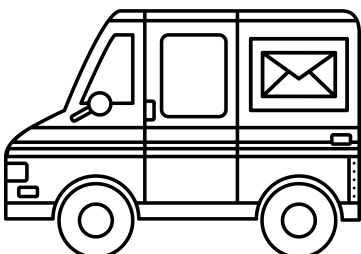
3. Which picture shows a mail delivery truck? Circle it.



4. Which picture shows a space shuttle? Circle it.

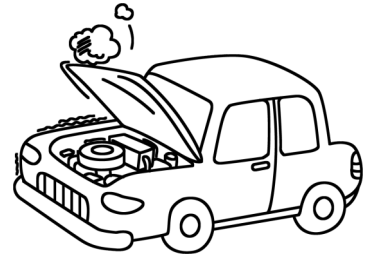
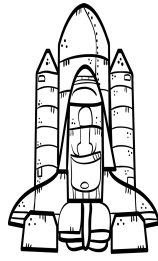
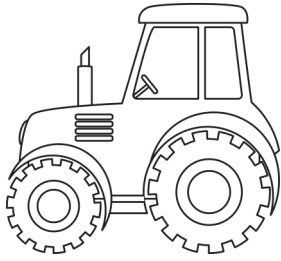


5. Which picture shows a fire truck? Circle it.



Identify the Piece of Equipment (continued)

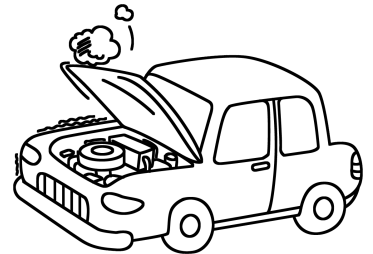
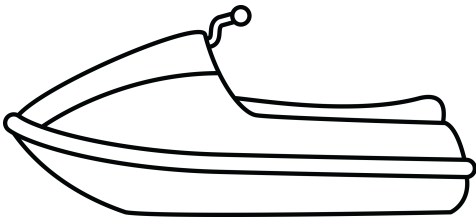
6. Which picture shows an automobile? Circle it.



7. Which picture shows a microscope? Circle it.



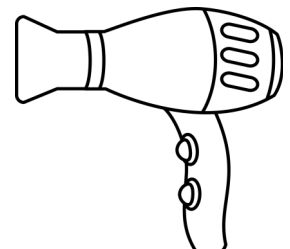
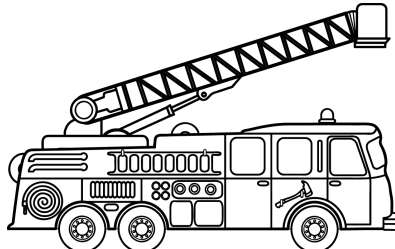
8. Which picture shows a dental chair? Circle it.



9. Which picture shows a walkie talkie? Circle it.



10. Which picture shows a hair dryer? Circle it.

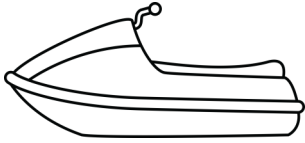


Answer Key

1.



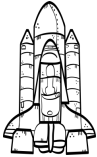
2.



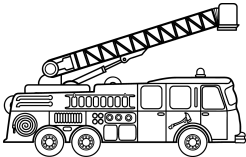
3.



4.



5.



6.



7.



8.



9.



10.



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