

Cybersecurity CyberSnack: Name the Picture

Time: 10-15 min

What You'll Need: [Cybersecurity Jobs Help Protect Handout](#)



NICE FOCUS: Cybersecurity Career Awareness

Learning Objectives: I can explain the connection between cybersecurity careers and the cybersecurity techniques, strategies, and the skills needed for these careers such as: logical thinking, need for people who think “out of the box,” problem solving, and recognizing patterns.

Essential Question: How do you think cybersecurity careers protect the different parts of our daily life?

Key Words: cybersecurity, logical thinking, thinking outside the box, problem solving, pattern recognizing, operational technology, aviation, finance

Activity Steps

Teacher Action	Student Action
<p>Share: Display or handout “Cybersecurity Jobs Help Protect” handout. Have students answer.</p> <p>Discuss: In the teacher's chosen method. *Note: can be done as a class or in small groups*</p> <p><i>Question: How do you think cybersecurity is connected with each of these areas?</i></p> <p>Possible ANSWERS:</p> <ol style="list-style-type: none"> 1. Money: As most of finance is controlled digitally or on computers now, we need financial cybersecurity specialists to secure these systems and programs from attack to protect our money. 2. Hospitals: A lot of a patient's information (data) is stored and saved on computer systems. We need medical cybersecurity specialists to secure these systems and programs from attack to protect our information and from certain life-supporting machines being tampered with. 3. Electricity: There is technology that is used to monitor and control the flow of electricity from the plants to a house. This 	<p>Think of possible answers and ask for clarification as needed. Students share responses in teacher chosen method</p>



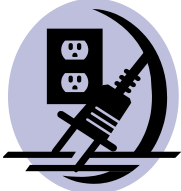



technology needs to be secure and protected from attacks that allows operational technology (tech that controls industrial technology) to service our everyday needs.

- 4. School:** A lot of student and their families' information (data) is stored and saved on computer systems used by the school. Also, many schools use technology to assist you in your learning and need to be able to access it safely. We need cybersecurity specialists to secure these systems and programs from attack to protect our information and create a positive learning environment.
- 5. Computer:** We do almost everything through or on a computer in today's world. We store and send sensitive information on these computers. As a result, we have to make sure that it is as safe and secure as possible to prevent attackers from getting access to the information that does not belong to them.
- 6. Soldier:** A soldier creates and needs access to information that is important for national security. However, the nation has to make sure that other nations or attackers don't get access to this information and risk the security of the nation. Therefore, we need soldiers with cybersecurity skills to secure these systems and programs from attack to protect our nation's information.
- 7. Cars:** A lot of modern cars have computers on them that assist the driver with navigation and safety. However, we need transportation cybersecurity specialists to secure these systems and programs from attack to protect our cars from tampering which could prove to be deadly if not protected correctly.
- 8. Plane:** The aviation industry has become digitized (gone all on computers) alongside all other industries. Planes carry people and goods which if impacted with a cyber-attack can greatly impact our daily lives. Therefore, we need aviation cybersecurity specialists with skills to secure these systems, programs, and information from attack.

Name _____ Date _____

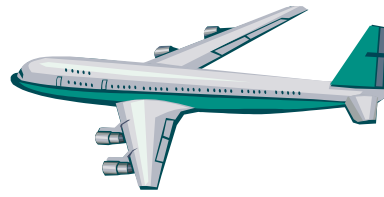
Cybersecurity Jobs Help Protect...

Write the word that goes with each picture. Use these words below. Discuss how cybersecurity is connected with each of these areas.

School	Computer	Airplane
Electricity	Soldier	Hospital
Cars	Money	
 1. _____	 2. _____	
 3. _____	 4. _____	
 5. _____	 6. _____	



7. _____



8. _____