

Cybersecurity CyberSnack: Career Opening Questions

Time: 15-20 min

What You'll Need: **Riddle 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: What do you think are the essential skills needed in a cybersecurity career?

Key Words: cybersecurity, logical thinking, thinking outside the box, problem solving, pattern recognizing

Activity Steps

Teacher Action	Student Action
<p>1. <u>Start a discussion</u> around career opportunities in cybersecurity by asking one or more of the following questions (selection of questions dependent on student level). Have students share responses in teacher’s preferred method.</p> <ol style="list-style-type: none"> How many of you use a cell phone? How many of you have digital cable or satellite television? How many of you (or your siblings) have a Facebook account? Use Twitter? Instagram? YouTube? TikTok? How many have parents that use ATM machines, credit cards, or debit cards? <p>2. <u>Connect discussion to cybersecurity</u></p> <ol style="list-style-type: none"> What is cybersecurity? What does cybersecurity mean to you? Who can tell me what cybersecurity is? Who can tell me what type of jobs you can do in the field of cybersecurity? When you think about cybersecurity, what do you think of? Who can give me some examples of careers or jobs in cybersecurity? <p>3. <u>Explain context:</u> Cybersecurity is the practice of deploying people, policies, processes and technologies by designing, developing, implementing, and maintaining defensive and offensive strategies to protect organizations, their critical systems and sensitive information from digital attacks. Talk about the connection between careers in</p>	<p>Think of possible answers and ask for clarification as needed. Students then share responses in teacher chosen method</p>



cybersecurity and the skills needed such as: logical thinking, need for people who think “out of the box,” problem solving, recognizing patterns

Reflect: Have students reflect on their responses and change or modify their answers as needed.

4. Ask: What do you think is the connection between solving riddles and a cybersecurity career?

ANSWER: The skills it takes to solve a riddle are very similar to the skills needed in a cybersecurity career. It is important to have diverse ways of thinking about how to solve problems.

5. Post Riddles: can be solved individually or as a group. Answers can be shared in teacher method of choice

Reflect: Ask students below question and have them share in teacher preferred method:

Cybersecurity CyberSnack: Riddle Handout

- **Riddle 1:**

Can you solve this riddle?

T M C

A U O

H S M

W T E

- **Riddle 2:**

What are the next two letters in the following series and why?

W A T N T L I T F S _ _

- **Riddle 3:**

What letter is missing in this sequence?

M, A, M, J, J, A, S, O, ?

- **Riddle 4:**

Can you tell us the missing number that should replace the ____ ?

37, 10, 82 29, 11, 47 96, 15, 87 42, ____, 15

- **Riddle 5:**

Solve this logical number sequence puzzle by inserting the correct digit

8080 = 6

1357 = 0

2022 = 1

1999 = 3

6666 = ?

- **Riddle 6:**

What do the following have in common or What logic was used for this ordering of words?

gun, shoe, spree, door, hive, kicks, heaven, gate, line, den

Answer Key:

Riddle 1: ANSWER: What goes up must come down

Riddle 2: ANSWER: A and W.

The letters are the first letters of the words in the question. Thus, the next two letters are A and W.

Riddle 3: ANSWER: N for November

M: March

A: April

M: Mayand so on ...

Riddle 4: ANSWER: The missing number that fit in ? is 6.

The number in the middle of each triple is the same as the digits of either end's number when added together. $3+7=10=8+2$ and so on.

Riddle 5: ANSWER: 4

Number of circles in the number.

Riddle 6: ANSWER: Each word rhymes with its numeric position in the list. (e.g. 'gun' rhymes with 'one', Shoe rhymes with two etc.)