

Activity:

Implementing antivirus and firewall measures for device protection. "Defense in Action: Build Your Cyber Shield"

Objective: To understand how antivirus and firewall software work together to protect devices and to learn practical strategies for securing personal or organizational systems.

Step 1:

Question for Discussion:

- What do you think are the main threats to your devices?

Encourage students to share experiences or ideas about cyber threats (e.g., viruses, hacking attempts).

Step 2: Group exploration "Meet Your Defenders"

1. Divide students into small groups. Each group will focus on one of these topics:

- What is antivirus software, and how does it protect your device?
 - What is a firewall, and how does it add a layer of security?
1. What happens if a device is not protected by either?

2. Research and Discuss: Provide students with short, accessible materials (printouts or links) about antivirus and firewalls. Ask them to summarize the key points in their own words.

3. Present Findings: Each group shares its summary with the class.

Step 3: Practical exercise "Simulate Your Cyber Defense"

1. Scenario Setup:

- Create a scenario where the students' devices are being targeted by malware or unauthorized access.
- Use flashcards or a slide deck to represent different "threats" (e.g., viruses, phishing emails, unauthorized network access).

2. Build Your Shield: Students work in pairs or small teams and each team must choose actions to protect their devices using "tools" like antivirus and firewalls.

Examples of actions include:

- Installing antivirus software.
- Setting up a firewall.
- Running a virus scan.
- Blocking an unauthorized connection.

3. Reflection: After the simulation, discuss how antivirus and firewalls complement each other in protecting devices. Highlight the importance of keeping them updated.

Step 4: Warp up - True and false questions

- Antivirus software can only protect against known threats.
- A firewall controls the data entering and leaving your network.
- Installing both an antivirus and a firewall is unnecessary.
- Firewalls can prevent unauthorized access to your device.
- Antivirus software doesn't need to be updated frequently.

Homework (Optional):

Ask students to research one antivirus or firewall software available in the market. They should list its main features and benefits.