Cybersecurity Project-Based Learning Activities

Engaging activities designed to teach K-12 students essential cybersecurity concepts through hands-on, real-world projects.

Guard the Treasure: Create a Strong Password (Grades K–5)
Students learn the importance of strong passwords by creating their own and testing their strength.

1. Discuss password basics (long, unique, secret).
2. Students design a strong password based on their favorite things.
3. Test passwords using a playful class challenge (teacher-led).
4. Create posters to teach others.

Cyber Awareness Campaign (Grades 6–8)
Students create a campaign to educate peers about cyber safety topics like phishing and privacy.

1. Research cyber topics in small groups.
2. Create educational materials (posters, flyers, videos).
3. Launch campaigns within the school community.
4. Collect feedback from peers via short surveys.

School Security Audit (Grades 9–12)
Teams evaluate cybersecurity practices of their school and propose improvements.

1. Conduct surveys/interviews about current cybersecurity practices.
2. Identify potential vulnerabilities (passwords, Wi-Fi, device use).
3. Create a cybersecurity improvement plan presentation.
4. Present findings to the teacher.