DIGI - CIVIS

13+

Best Practices for Password Security

SUBJECT: Safe Online Navigation

LESSON TOPIC: Password Security Best Practices

DURATION: 45 minutes (1 Lesson); 1-1.5 hours (Preparation)

LEARNING OBJECTIVES:

Main objective of the lesson

Students will understand the importance of password security and learn best practices for creating and managing strong passwords.

Competences that students will acquire

Students will gain knowledge of the importance of password security and acquire skills to create strong, secure passwords. They will also understand how to manage and store passwords safely and become aware of the risks associated with poor password practices.

MATERIALS/RESOURCES NEEDED:

- Module 2 (https://www.digi-civis.eu/e-learning)
- Canva Presentation (https://www.canva.com/design/DAGJ_7baZkg/W6GlM444r88uSrjLV3ikAQ/edit)

METHODS/TECHNIQUES:

- **Presentation:** Use a visually engaging presentation to introduce the importance of password security and best practices.
- **Group work:** Divide students into small groups to collaboratively solve password security scenarios.

MATERIALS/RESOURCES NEEDED:

- Prepare and print the handouts with guidelines for creating strong passwords (https://www.canva.com/design/DAGKAKiGuhc/4IebmZtg4zjfq2pUPZ6TGw/edit)
- Prepare and print scenarios related to password security (https://www.canva.com/design/DAGKAKiGuhc/4IebmZtg4zjfq2pUPZ6TGw/edit)

METHODS/TECHNIQUES:

- **Individual activity:** Have each student create a strong password based on provided guidelines and evaluate their work with a partner.
- **Discussion:** Facilitate a class-wide discussion to compare group solutions and reinforce key points about password security.
- **Reflection:** Assign a reflective homework task where students write about their new understanding of password security and its importance.

LESSON PLAN OVERVIEW

PREPARATION:

The teacher must:

Thoroughly go through the Digi-civis Module 2 to understand the fundamental concepts of the importance of password security. Print handouts with guidelines for creating strong passwords, and ensure the presentation is ready to be displayed. Print, cut and assign different password security scenarios for the group activity, and prepare tools for students to use during the individual activity.

LESSON PLAN OVERVIEW

IMPLEMENTATION:

Introduction (10 minutes):

- Begin with a brief presentation about the importance of online security.
- Show statistics or real-life examples of the consequences of poor password practices.
- Introduce the main objectives of the lesson.

Group Activity (15 minutes):

- Divide the class into small groups.
- Give each group a scenario related to password security and ask them to come up with a solution.
- Have each group present their solution to the class.

Individual Activity (10 minutes):

- Distribute the handouts with guidelines for creating strong passwords.
- Ask students to create a strong password following the guidelines.
- The password will be for a fictional use, not for student real accounts.
- Have students share their passwords with a partner (without revealing the actual password) to check if they meet the criteria.

ADDITIONAL INFORMATION TO LEARN MORE:
- How To Make Passwords More Secure
https://www.youtube.com/watch?v=xUp5S0nBnfc
- Best Practices for Password Security After Recent Hacks
https://www.youtube.com/watch?v=Ydny3Z4oBa0

ANNEXES:
- Canva Presentation
(https://www.canva.com/design/DAGJ_7baZkg/W6GlM444r88uSrjLV3ikAQ/edit)
- Prepare and print the handouts with guidelines for creating strong passwords
(https://www.canva.com/design/DAGKAKiGuhc/4IebmZtg4zjfq2pUPZ6TGw/edit)

ADDITIONAL INFORMATION TO LEARN MORE:

- 13 Password Best Practices https://www.youtube.com/watch?v=vHWsKhh8mqU
- Mastering Password Security: Best Practices for Stronger Protection https://www.youtube.com/watch?v=FstVgf1p4aU

ANNEXES:

- Prepare and print scenarios related to password security (https://www.canva.com/design/DAGKAKiGuhc/4IebmZtg4zjfq2pUPZ6TGw/edit)

HOMEWORK:

- Ask students to implement what they've learned by updating their passwords for various accounts.
- Write a short reflection on how their understanding of password security has changed.

ASSESSMENT:

- Evaluate students' participation in group and class discussions.
- Review the solutions presented during the group activity.
- Grade the individual activity and quiz.
- Collect and assess the homework reflection for understanding and application of the lesson.