



06 – Digital Security

Teachers' Notes

How can we protect our data?

Digital security is an important issue in today's world. Students will discuss how we can protect our data, investigate what makes a weak or strong password, and use top tips to write a password to protect their rucksack.

Rules to protect passwords

- Do not use the same password for everything.
- Do not use personal information. It makes it too easy to guess.
- Passwords should be at least twelve characters long.
- Passwords should use a mixture of letters, numbers and symbols.
- Use upper- and lower-case numbers
- Use a 'pass-phrase' with a random mixture of words such as: 'black76SometimeSugar&Shoe'
- Top tip: Remind students not to write their passwords down. Instead they should create rules to help remember them.

Learning outcomes

- Understand it is easy to crack a password that uses personal information.
- Identify what makes a weak or strong password.
- Discuss how to make passwords safer.
- Learn how to make passwords more secure.

Key words

Secure | Password | Character

Prepare for the activity

- Prepare film clip.
- Download classroom PowerPoint.
- Print student activity cards.

Run the activity

- Show the film clip.
- Use the PowerPoint to introduce Key words, explain what makes a strong password and set up a class discussion about passwords in real life.
- Students complete Activity Card 01.
- Put students into teams of five or six (or their table group).
- Assign each team a person - Winston or Tommy.
- Teams must work together and use three elements of the character profile information to create a password.
- Pair teams with different people together.
- Teams take it in turns to guess the three parts of the password and the correct order.
- Swap teams over to guess other passwords.

Extension activities

- Work as a class to create a secure password for the school. Encourage students use rules to help them to work out a system for remembering passwords.