# User Access Levels & Passwords

What are some key defences we can put in to prevent a Brute Force Attack?

Think about actions that might happen in your school. The table below lists some actions that different people might have authority to perform. Highlight each box with whom should have the authority for each action.

|  |  |  |  |
| --- | --- | --- | --- |
| **Action** | **Student** | **Teacher** | **IT Department** |
| Take the register in a Lesson. |  |  |  |
| Change System Settings. |  |  |  |
| Access a shared folder for students. |  |  |  |
| Add or delete users from the Network. |  |  |  |
| Access a student’s personal files and make changes to it. |  |  |  |
| Access a shared area for teachers. |  |  |  |
| Install new Software. |  |  |  |

**Extension: Head over to this link:** [**https://www.security.org/how-secure-is-my-password/**](https://www.security.org/how-secure-is-my-password/)

**And try out your passwords e.g. school passwords. How secure are they?**

# Anti-Malware

Fill in the gaps in the flowchart using the labels given:

(Delete File, Quarantine File, All Files Scanned?, Suspicious Code Found?)

Start

Scan File

Suspicious Code Found?

End

All files scanned?

Delete File

Quarantine File

**Extension: How does an anti-malware know what is malware and what is not? Try and research it?**

# Anti-Malware & Firewalls

Identify whether each of the following threats could be tackled using anti-malware software, a firewall or neither.

You may need to research any words that you don’t know.

|  |  |  |  |
| --- | --- | --- | --- |
| **Threat** | **Anti-Malware** | **Firewall** | **Neither** |
| A Virus hidden inside a program downloaded from the Internet. |  |  |  |
| A hacker using a network port scanner to try and find vulnerabilities in a Network. |  |  |  |
| A school student accidentally accessing sites known to contain viruses. |  |  |  |
| A user writing their password down on a piece of paper. |  |  |  |
| A worm being sent from computer to computer across a network. |  |  |  |
| DoS Attack |  |  |  |
| DDoS Attack |  |  |  |
| A Keylogger sending information back to its creator. |  |  |  |

**Extension: If we have anti-malware and firewalls then why do we still have Network Security issues? Why can they never be 100%?**