# Malware Matching

Write down the key features of the following types of malware. What is the key difference between each type?

|  |  |
| --- | --- |
| Viruses |  |
| Worms |  |
| Trojans |  |

Read the following scenarios and decide if they are viruses, worms or trojans:

“Send via email, convinced users to install, once it was installed it attached itself to Microsoft’s Internet Explorer, it detected if a user was visiting a Banking Website and then took their personal details including banking passwords.”

Based on the description circle the correct type **and explain why.**

**Virus Worm Trojan**

And why?

“Once downloaded and opened, it disabled several safeguards in Microsoft Word. Then it used macros to send emails using the user’s email application. It causes roughly $80 million in damages”.

Based on the description circle the correct type **and explain why.**

**Virus Worm Trojan**

And why?

“Launched in 2004, it transmitted via email and infected hosts causing them to spread and eventually carry out a DDoS attack against several technology companies.”

Don’t worry about understanding what a DDoS attack is. We’ll come onto that later.

Based on the description circle the correct type **and explain why.**

**Virus Worm Trojan**

And why?

**Extension: Research the Stuxnet worm. Find out as much as you can about it**

# Social Engineering

Circle or highlight any of the following email that seems suspicious and suggests social engineering.

|  |  |
| --- | --- |
| **Subject:** | IMPORTANT – Wow you’ve won money $$$!!!!!! |
| **Message:** | Dear valued customer,  We are writing to inform you that you have won $3000 in our raffel.  In order to cheks on your details and give you the mony with your banking service, please click on the link below in order to access your online account and confirm your information. You will need to confirm your card information.  **Click here to log in** |

Extension:

Try to write your own in the same style in your Exercise Book.

# Brute Force Attacks

We’ve got the following 3 user accounts that I want you to try and break into. I’ve given you the usernames and given hints about what the password might be:

**EASY: admin account**

Username: admin

HINT: The admin was forced to make a password but isn’t very creative and couldn’t really think of anything.

**MEDIUM: teacher account**

Username: teacher

HINT: This teacher has a poor memory for passwords. So, they wanted to not have to remember a password, so they chose some text that was already on the screen.

**HARD: student account**

Username: student

HINT: This student has a pet named “Frixos” and they were born in 2007. They’ve been more secure and included a special character in their password.