

## Cyber Security and Threats

1	<p>Cyber Security is the processes, practices and technologies designed to protect networks, computers, programs and data from attack, damage or unauthorized access.</p> <p>Cyber Security Threats:</p> <ul style="list-style-type: none"> <li>- Social engineering techniques</li> <li>- Malicious code</li> <li>- Weak and default passwords</li> <li>- Misconfigured access rights</li> <li>- Removable media</li> <li>- Unpatched and or outdated software</li> </ul>
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## Testing Systems

1	<ul style="list-style-type: none"> <li>- Penetration Testing is the process of attempting to gain access to resources without knowledge</li> <li>- White Box Testing is to simulate a malicious insider who has knowledge of and possibly basic credentials for the target system</li> <li>- Black Box Testing is to simulate an external hacking or cyber warfare attack</li> </ul>
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## Prevention and Detection of Threats

2	<ul style="list-style-type: none"> <li>- Understand and be able to explain the following security measures: <ul style="list-style-type: none"> <li>- Antivirus Software</li> <li>- Firewall</li> <li>- Biometric measures (particularly for mobile devices)</li> <li>- Password systems</li> <li>- CAPTCHA (or similar)</li> <li>- Using email confirmations to confirm a user's identity</li> <li>- Automatic software updates.</li> </ul> </li> </ul>
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## Social Engineering Techniques

1	<ul style="list-style-type: none"> <li>- Understand and be able to explain the following security measures: <ul style="list-style-type: none"> <li>- Antivirus Software</li> <li>- Firewall</li> <li>- Biometric measures (particularly for mobile devices)</li> <li>- Password systems</li> <li>- CAPTCHA (or similar)</li> <li>- Using email confirmations to confirm a user's identity</li> <li>- Automatic software updates.</li> </ul> </li> </ul>
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## Key Vocabulary

1	Malware	Is an umbrella term used to refer to a variety of forms of hostile or intrusive software
2	Cyber Security	is protecting networks, computers, programs and data from attack, damage or unauthorized access.
3	Social Engineering	Using people as a weak point in a system
4	Virus	In computing terms it is something that maliciously affects computer software and code.

