

## Computing Grade Descriptors

Topic and AO	1	2	3	4	5
<p>Understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct, and know how to report concerns</p>	<ul style="list-style-type: none"> <li>-Identify Data</li> <li>-Identify Information</li> <li>- List the common malware threats</li> <li>- Define hacking in the context of cyber security</li> </ul>	<ul style="list-style-type: none"> <li>- Recognise how human errors pose security risks to data</li> <li>-Gives examples of different types of malware</li> <li>- Identify the most effective methods to prevent cyberattacks</li> <li>- Identify what happens to data entered online</li> </ul>	<ul style="list-style-type: none"> <li>-Explain the difference between data and information</li> <li>- Explain the need for the Computer Misuse Act</li> <li>- Explain the need for the Data Protection Act</li> <li>- Explain how a DDoS attack can impact users of online services</li> <li>- Identify strategies to reduce the chance of a brute force attack being successful</li> </ul>	<ul style="list-style-type: none"> <li>- Implement strategies to minimise the risk of data being compromised through human error</li> <li>- Explain how networks can be protected from common security threats</li> </ul>	<ul style="list-style-type: none"> <li>- Critique online services in relation to data privacy</li> <li>- Compare security threats against probability and the potential impact to organisations</li> <li>- Question how malicious bots can have an impact on societal issues</li> <li>- Examine how different types of malware causes problems for computer systems</li> </ul>

### Computing Grade Descriptors

<p>Undertake creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users</p>	<ul style="list-style-type: none"> <li>- Use an appropriate software tool to visualise data sets and look for patterns or trends</li> <li>- Recognise examples of where large data sets are used in daily life</li> </ul>	<ul style="list-style-type: none"> <li>- Create a data capture form</li> <li>- Collect different pieces of information for a specific purpose</li> </ul>	<ul style="list-style-type: none"> <li>- Define data science</li> <li>- Explain how visualising data can help identify patterns and trends in order to help us gain insights</li> <li>- Visualise a data set</li> </ul>	<ul style="list-style-type: none"> <li>- Select criteria and use data set to investigate predictions</li> <li>- Define the terms 'correlation' and 'outliers' in relation to data trends</li> <li>- Apply data cleansing techniques to a data set</li> </ul>	<ul style="list-style-type: none"> <li>- Evaluate findings to support arguments for or against a prediction</li> <li>- Analyse visualisations to identify patterns, trends, and outliers</li> <li>- Draw conclusions and report findings</li> </ul>
---	---	--	---	--	---

Computing Grade Descriptors

--	--	--	--	--	--

Computing Grade Descriptors

--	--	--	--	--	--