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| **1.5 Securing data and systems** |
| * Learners should understand the following threats to data stored on computer systems and online:   + accidental damage – identifying how data can be at risk from accidental destruction.   + malicious and deliberate damage. |

Specification points:

Skills audit:

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| **Criteria** |  |  |  |
| I can identify what is meant by a *brute force attack*, how it works and what measures can be put in place to prevent this. |  |  |  |
| I can identify what is meant by a *DDoS attack*, how it works and what measures can be put in place to prevent this. |  |  |  |
| I can identify what is meant by a *packet sniffer*, how it works and what measures can be put in place to prevent this. |  |  |  |
| I can identify what is meant by a *SQL injection*, how it works and what measures can be put in place to prevent this. |  |  |  |

Teacher feedback:

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Student response:

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**Exam-style questions**

1. Businesses and individuals need to remain vigilant when it comes to all the sophisticated methods used to attack a network, such as a brute force attack.
2. Describe what is meant by ‘brute force attack’.

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**[2]**

1. A strong password is a good way to avoid a potential attack.

State **three** features of a strong password.

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2…………………………………………………………………………………………………………………..

3…………………………………………………………………………………………………………………..

**[3]**

1. Distributed Denial of Service Attack (DDoS) is another common method used to attack a network.
2. Describe what is meant by a DDoS attack.

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**[2]**

1. Identify **two** measures that a company could take to prepare for a DDoS Attack.

1…………………………………………………………………………………………………………………..

2…………………………………………………………………………………………………………………..

**[2]**