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| **D** | **Prevention Measures** | |
| **Physical** | | Protecting against attacks with physical means |
| **Biometric protection** | | Reading data about someone’s body to verify their identity. Eg fingerprint, retina scan, DNA |
| **Locks** | | Securing the doors and windows to rooms with data storing machines |
| **CCTV** | | Security cameras |
| **Bolting down** | | Attaching computing equipment to a desk |
| **Logical** | | Protecting against attacks with non-physical means |
| **Access rights** | | Permissions for different users to be able to look at and edit different data |
| **Authentication** | | Making sure a user is the right person by eg username and password |
| **Two-factor** | | Authentication which asks for two proofs of ID, eg a password and a texted code |
| **Anti-malware software** | | Software which stops viruses and other malware getting into a system |
| **Encryption** | | Data is stored as an incomprehensible code until it is decrypted with a key |
| **Secure backup** | | A copy of important data, preferably kept away from the original data |

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| **C** | **Consequences of Disruption** | |
| **Disruption** | | When a cyber-security attack interrupts the normal running of a business |
| **Operational** | | A website or computer system can be stopped from working |
| **Financial** | | Money can be lost through loss of customers, compensation claims and the time spent fixing the disruption |
| **Commercial** | | When sales cannot be made |
| **Safety** | | Disruption of the running of, eg, a power plant would pose a threat to health of the public |

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| **B** | **Consequences of Data Loss** | |
| **Financial loss** | | If invoices are lost, income may be lost. If personal data is lost, compensation may be paid |
| **Time** | | Loss of data will mean any work done to make the data will have to be done again. |
| **Reputation** | | A data breach will undermine public confidence in the company which is attacked |

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| **A** | **Threats to Data** | |
| **Destruction** | | Data is lost and cannot be recovered |
| **Manipulation** | | Data is changed from its original form |
| **Modification** | | Another way of saying manipulation |
| **Theft** | | Data is stolen |
| **Identity theft** | | Stolen data is used to impersonate someone |

Information Technology: Risk Mitigation with Data

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