

## Summer Assessment Topics for Revision

Year : 12

Subject: Cambridge Tech L3 IT

### Topics to revise for April Assessment

#### Unit 1: Fundamentals of IT

| Unit  | Topic Title                                  |
|---|--|
| Understand computer hardware  | Computer Hardware                            |
|   | Computer components                          |
|   | Units of measurements                        |
|   | Number conversions                           |
| Understand computer software  | Types of software                            |
|   | Utility software                             |
|   | Applications software                        |
|   | Software troubleshooting                     |
|   | Communication methods                        |
| Understand business IT systems  | Protocols                                    |
|   | Network Characteristics                      |
|   | Connectivity methods                         |
|   | Communication skills                         |
| Understand employability and communication skills in an IT environment    | Ready for work                               |
|   | Operational Issues                           |
| Understand ethical and operational issues and threats to computer systems | Threats                                      |
|   | Safe disposal of data and computer equipment |
|   |  |

#### Unit 3: Cyber Security

| Unit   | Topic Title                                 |
|--|---|
| Understand issues around cyber security                    | Types of attackers                          |
|  | Motivations                                 |
|  | Characteristics of attackers                |
|  | Effects of attacks                          |
| Understand measures used to prevent against cyber security | Investigating an attack                     |
|  | Preventing attacks (cryptography, software) |
|  | Risk Management                             |

## Topics to revise for May Assessment

### Unit 1: Fundamentals of IT

| Unit  | Topic Title              |
|---|--------------------------|
| Understand computer hardware  | Computer Hardware        |
|   | Computer components      |
|   | Number conversions       |
| Understand computer software  | Types of software        |
|   | Utility software         |
|   | Applications software    |
|   | Software troubleshooting |
|   | Communication methods    |
|   | Protocols                |
| Understand business IT systems  | Types of server          |
|   | Virtualisation           |
|   | Connectivity methods     |
| Understand employability and communication skills in an IT environment    | Communication skills     |
|   | Personal attributes      |
| Understand ethical and operational issues and threats to computer systems | Operational Issues       |
|   | Digital security         |

### Unit 3: Cyber Security

| Unit   | Topic Title                        |
|--|------------------------------------|
| What is meant by cyber security                            | Data to be secured                 |
|  | Environmental and Physical Threats |
| Understand issues around cyber security                    | Types of attackers                 |
|  | Characteristics of attackers       |
|  | Motivations                        |
|  | Effects of attacks                 |
| Understand measures used to prevent against cyber security | IDS and IPS                        |
|  | Vulnerability testing              |
|  | Incident report                    |

#### Revision Support:

- Class materials on teams
- Revision sites: <https://getrevising.co.uk/resources/level/gcse/subjects/computing> and <http://enderoth.com/Pages/CTech%20-%20IT%20-%202012%20-%20Level%2003.html>