

# iteachyou.co.uk



Technical Innovation & e-commerce

Part of the Yodafone Project  
Based on OCR Nationals (2010)



### Learning outcomes

By completing this unit candidates will develop basic knowledge and understanding of technological innovation and e-commerce.

Candidates will be able to:

- identify the effects of ICT on the individual
- describe an innovation in ICT
- investigate how e-commerce has affected the way people buy goods and services
- investigate e-commerce websites, and
- understand legal and moral issues in the digital age.

### Scenario

- The Yodafone e-Shop
- Yodafone is keen to make use of e-commerce and latest innovations in ICT to sell its products. The main target audience is teenagers, although many adults may also read it due to its excellent reviews online. Your findings will be reviewed by Jim who will make the Yodafone e-Shop a reality.
- Don't forget to keep a record of the webpages you use to help you in your work!

### Topics

- AO1 - Identify the effects of ICT on the individual
- AO2 - Describe an innovation in ICT
- AO3 - Investigate how ecommerce has affected the way people buy goods and services
- AO4 - Investigate an ecommerce website
- AO5 - Understand legal and moral issues in the digital age

## AO1 - Identify the effects of ICT on the individual

|  | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Merit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Distinction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Candidates briefly describe how technology from at least 3 of the categories is used by the individual.</p> <p>They describe how the technology is used and suggest some benefits and disadvantages.</p> <p>Candidates may not use correct terminology.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <p>Candidates describe in detail how technology from at least 4 of the categories is used by the individual.</p> <p>They describe how the technology is used and give a range of benefits and disadvantages.</p> <p>Candidates use the correct terminology most of the time.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <p>Candidates explain in detail how technology from at least 5 of the categories is used by the individual.</p> <p>They explain how the technology is used and give a wide range of benefits and disadvantages.</p> <p>Candidates use the correct terminology.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you must describe how 3 technologies are used by individuals including you and your family/friends. You must describe the benefits and disadvantages of each technology.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Pick 3 of the following technologies and describe them using worksheet <b>Appendix 1a</b>. <ul style="list-style-type: none"> <li>internet eg: email, WWW, messenger, chat rooms</li> <li>communication eg: mobile phone, video phone, video conferencing, information points</li> <li>entertainment eg: games console, MP3 player, digital TV</li> <li>mobile access eg: laptop, PDA, wi-fi, WAP</li> <li>data capture eg: digital camera, voice recorder, scanner</li> <li>financial transactions eg: ATM, EPOS, smart card</li> </ul> </li> <li>Save the worksheets in your unit 8 ao1 folder as TechnologyP123</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you must fully describe how 4 technologies are used by individuals including you and your family/friends. You must describe a range of benefits and disadvantages of each technology.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Pick 4 of the following technologies and describe them using worksheet <b>Appendix 1b</b>. <ul style="list-style-type: none"> <li>internet eg: email, WWW, messenger, chat rooms</li> <li>communication eg: mobile phone, video phone, video conferencing, information points</li> <li>entertainment eg: games console, MP3 player, digital TV</li> <li>mobile access eg: laptop, PDA, wi-fi, WAP</li> <li>data capture eg: digital camera, voice recorder, scanner</li> <li>financial transactions eg: ATM, EPOS, smart card</li> </ul> </li> <li>Save the worksheets in your unit 8 ao1 folder as TechnologyM1234</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you must fully explain how 5 technologies are used by individuals including you and your family/friends. You must explain a wide range of benefits and disadvantages of each technology.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Pick 5 of the following technologies and explain them using worksheet <b>Appendix 1c</b>. <ul style="list-style-type: none"> <li>internet eg: email, WWW, messenger, chat rooms</li> <li>communication eg: mobile phone, video phone, video conferencing, information points</li> <li>entertainment eg: games console, MP3 player, digital TV</li> <li>mobile access eg: laptop, PDA, wi-fi, WAP</li> <li>data capture eg: digital camera, voice recorder, scanner</li> <li>financial transactions eg: ATM, EPOS, smart card</li> </ul> </li> <li>Save the worksheets in your unit 8 ao1 folder as TechnologyD12345</li> </ul> |

**AO2 - Describe an innovation in ICT**

|  | <b>Pass</b>                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Merit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Distinction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Candidates identify one innovation in ICT.</p> <p>Candidates describe briefly its purpose, how it works and one benefit and one limitation.</p> <p>Candidates may not use correct terminology.</p>                                                                                                                                                                                                                                         | <p>Candidates identify one innovation in ICT.</p> <p>Candidates describe its purpose, how it works and a range of benefits and limitations.</p> <p>Candidates use the correct terminology most of the time.</p>                                                                                                                                                                                                                                                                                   | <p>Candidates identify one innovation in ICT.</p> <p>Candidates give a detailed description of its purpose, the extent to which it achieves its purpose, how it works and a range of benefits and limitations.</p> <p>Candidates use the correct terminology.</p>                                                                                                                                                                                                                                                               |
|  | <p>Info:</p> <ul style="list-style-type: none"><li>• In this task you will identify one innovation in ICT and describe its purpose.</li><li>• you will say how your innovation works.</li><li>• you will give a benefit and limitation of the innovation.</li></ul> <p>Task:</p> <ul style="list-style-type: none"><li>• Complete worksheet <b>Appendix 2a</b></li><li>• Save the document in your unit 8 ao2 folder as innovation.</li></ul> | <p>Info:</p> <ul style="list-style-type: none"><li>• In this task you will identify one innovation in ICT and describe its purpose, considering whether the purpose is met.</li><li>• you will say how your innovation works.</li><li>• you will give a range of benefits and limitations for the innovation.</li></ul> <p>Task:</p> <ul style="list-style-type: none"><li>• Complete worksheet <b>Appendix 2b</b></li><li>• Save the document in your unit 8 ao2 folder as innovation.</li></ul> | <p>Info:</p> <ul style="list-style-type: none"><li>• In this task you will identify one innovation in ICT and describe fully its purpose, considering to what extent the innovation achieves its purpose.</li><li>• you will say how your innovation works.</li><li>• you will give a range of benefits and limitations for the innovation.</li></ul> <p>Task:</p> <ul style="list-style-type: none"><li>• Complete worksheet <b>Appendix 2c</b></li><li>• Save the document in your unit 8 ao2 folder as innovation.</li></ul> |

### AO3 - Investigate how ecommerce has affected the way people buy goods and services

|  | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Merit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Distinction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Candidates give a brief definition of ecommerce.</p> <p>Candidates will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience and cost. They give an example to illustrate at least one of these key points.</p> <p>Candidates may not use correct terminology.</p>                                                                                                                                                                                         | <p>Candidates give a definition of ecommerce using examples of at least two different types of e-commerce website.</p> <p>Candidates will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience, cost, location and flexibility. They give an example to illustrate each of three of these key points.</p> <p>Candidates use the correct terminology most of the time.</p>                                                                                                                                                                               | <p>Candidates give a detailed definition of e-commerce using examples of a range of different types of e-commerce website.</p> <p>Candidates will give a detailed explanation of how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience, cost, location and flexibility. They give an example to illustrate each of the five key points.</p> <p>Candidates use the correct terminology.</p>                                                                                                                                                                                                                                                                                                                                                   |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you will give a brief definition of ecommerce.</li> <li>you will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience and cost. You will give an example to illustrate at least one of these key points.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 3a</b></li> <li>Save the document in your unit 8 ao3 folder as e-commerce.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you will give a definition of ecommerce using examples of at least two different types of e-commerce website.</li> <li>you will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience and cost, location and flexibility. You will give an example to illustrate each of three of these key points.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 3b</b></li> <li>Save the document in your unit 8 ao3 folder as e-commerce.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>In this task you will give a detailed definition of e-commerce using examples of a range of different types of e-commerce website. You may wish to give their own impressions of such sites, but better grades may be secured where further research is carried out eg consumer surveys.</li> <li>you will give a detailed explanation of how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience, cost, location and flexibility. You will give an example to illustrate each of the five key points.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 3c</b></li> <li>Save the document in your unit 8 ao3 folder as e-commerce.</li> </ul> |

#### AO4 - Investigate an ecommerce website

|  | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Merit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Distinction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Candidates identify one e-commerce website.</p> <p>Candidates identify the purpose and audience of the website. This description may not be fully accurate.</p> <p>Candidates use annotated screenshots to describe some of the e-commerce features of the website.</p> <p>Candidates may not use correct terminology.</p>                                                                                                                                                                                                                                                       | <p>Candidates identify one e-commerce website.</p> <p>Candidates identify the purpose and audience of the website.</p> <p>Candidates use annotated screenshots to give an accurate description of a range of the e-commerce features of the website.</p> <p>Candidates use the correct terminology most of the time.</p>                                                                                                                                                                                                                                                                                      | <p>Candidates identify one e-commerce website.</p> <p>Candidates identify the purpose and audience of the website. They describe the extent to which the site meets its aim, giving examples.</p> <p>Candidates use annotated screenshots to give a detailed description of a range of the e-commerce features of the website.</p> <p>Candidates use the correct terminology.</p>                                                                                                                                                                                                                             |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>You must identify the purpose and audience for the website investigated. "Everyone" or "all ages/genders" is not an appropriate identification of the audience.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4a</b></li> <li>Save the document in your unit 8 ao4 folder as purpose audience.</li> </ul>                                                                                                                                                                       | <p>Info:</p> <ul style="list-style-type: none"> <li>You must identify the purpose and audience for the website investigated. "Everyone" or "all ages/genders" is not an appropriate identification of the audience.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4a</b></li> <li>Save the document in your unit 8 ao4 folder as purpose audience.</li> </ul>                                                                                                                                                                                                 | <p>Info:</p> <ul style="list-style-type: none"> <li>You must identify the purpose and audience for the website investigated. "Everyone" or "all ages/genders" is not an appropriate identification of the audience.</li> <li>You must also describe the extent to which the site meets its aim, giving examples.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4d</b></li> <li>Save the document in your unit 8 ao4 folder as aim purpose audience.</li> </ul>                                                                                                |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>When investigating e-commerce websites it is important that you show that you understand the whole process, not just browsing and choosing items. Understanding of payment methods, including the use of secure sites should also be shown. It is possible on many e-commerce websites to follow through to the payment screen.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4c</b></li> <li>Save the document in your unit 8 ao4 folder as annotated printscreens.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>When investigating e-commerce websites it is important that you show that you demonstrate a sound understanding of the whole process, not just browsing and choosing items. Understanding of payment methods, including the use of secure sites should also be shown. It is possible on many e-commerce websites to follow through to the payment screen.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4c</b></li> <li>Save the document in your unit 8 ao4 folder as annotated printscreens.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>When investigating e-commerce websites it is important that you show that you demonstrate a sound understanding of the whole process, not just browsing and choosing items. Understanding of payment methods, including the use of secure sites should also be shown. It is possible on many e-commerce websites to follow through to the payment screen.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 4c</b></li> <li>Save the document in your unit 8 ao4 folder as annotated printscreens.</li> </ul> |

#### AO5 - Understand legal and moral issues in the digital age

|  | Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Merit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Distinction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Candidates describe some of the main requirements of legislation relating to data protection, copyright and computer misuse.</p> <p>They will briefly describe at least one moral issue related to the use of digital technology, giving a specific example to illustrate their description.</p> <p>Their descriptions will be largely accurate.</p>                                                                                                                                                                                                                                                                        | <p>Candidates describe the main requirements of legislation relating to data protection, copyright and computer misuse. For each type of legislation their descriptions will include at least one example of an issue affected by it.</p> <p>They will describe at least two different moral issues related to the use of digital technology, giving a specific example for each to illustrate their descriptions.</p> <p>Their descriptions will be mostly accurate.</p>                                                                                                                                                      | <p>Candidates explain the main requirements of legislation relating to data protection, copyright and computer misuse, giving reasons for the requirements. Their explanations will be illustrated by a range of examples.</p> <p>They will describe at least two different moral issues related to the use of digital technology, explaining why they have occurred and discussing opposing opinions.</p> <p>They will use a range of examples to illustrate the issues.</p> <p>Their descriptions will be accurate.</p>                                                                                                      |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of computer legislation in the digital age.</li> <li>Ensure you check recent news/current affairs via relevant websites and/or technology magazines.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5a</b></li> <li>Save the document in your unit 8 ao5 folder as legislation.</li> </ul>                                                                                                                                                                                          | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of computer legislation in the digital age.</li> <li>Ensure you check recent news/current affairs via relevant websites and/or technology magazines.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5b</b></li> <li>Save the document in your unit 8 ao5 folder as legislation.</li> </ul>                                                                                                                                                                                          | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of computer legislation in the digital age.</li> <li>Ensure your explanations are backed up by using plenty of examples from recent news/current affairs via relevant websites and/or technology magazines.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5c</b></li> <li>Save the document in your unit 8 ao5 folder as legislation.</li> </ul>                                                                                                                                   |
|  | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of moral issues in the digital age.</li> <li>Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you such as civil liberties, eg: surveillance, data collection, data storage, ID cards, airport security; access to information; employment.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5d</b></li> <li>Save the document in your unit 8 ao5 folder as moral issues.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of moral issues in the digital age.</li> <li>Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you such as civil liberties, eg: surveillance, data collection, data storage, ID cards, airport security; access to information; employment.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5e</b></li> <li>Save the document in your unit 8 ao5 folder as moral issues.</li> </ul> | <p>Info:</p> <ul style="list-style-type: none"> <li>You must demonstrate your understanding of moral issues in the digital age.</li> <li>Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you such as civil liberties, eg: surveillance, data collection, data storage, ID cards, airport security; access to information; employment.</li> </ul> <p>Task:</p> <ul style="list-style-type: none"> <li>Complete worksheet <b>Appendix 5f</b></li> <li>Save the document in your unit 8 ao5 folder as moral issues.</li> </ul> |

## Appendix 1a

In this task you must describe how 3 technologies are used by individuals including you and your family/friends. You must **describe** the benefits and disadvantages of each technology.

|                                                               |  |  |
|---------------------------------------------------------------|--|--|
| <b>Technology 1 name:</b>                                     |  |  |
| <b>Description of the technology</b>                          |  |  |
|                                                               |  |  |
| <b>Create a guide describing how this technology is used?</b> |  |  |
|                                                               |  |  |
| <b>Describe how you have used this technology?</b>            |  |  |
|                                                               |  |  |
| <b>Give a range of benefits of this technology</b>            |  |  |
|                                                               |  |  |
|                                                               |  |  |
| <b>Give a range of disadvantages of this technology</b>       |  |  |
|                                                               |  |  |
|                                                               |  |  |

|                                                               |  |  |
|---------------------------------------------------------------|--|--|
| <b>Technology 2 name:</b>                                     |  |  |
| <b>Description of the technology</b>                          |  |  |
|                                                               |  |  |
| <b>Create a guide describing how this technology is used?</b> |  |  |
|                                                               |  |  |
| <b>Describe how you have used this technology?</b>            |  |  |
|                                                               |  |  |
| <b>Give a range of benefits of this technology</b>            |  |  |
|                                                               |  |  |
|                                                               |  |  |
| <b>Give a range of disadvantages of this technology</b>       |  |  |
|                                                               |  |  |
|                                                               |  |  |

|                                                         |  |  |
|---------------------------------------------------------|--|--|
| <b>Technology 3 name:</b>                               |  |  |
| <b>Description of the technology</b>                    |  |  |
|                                                         |  |  |
| <b>Describe how this technology is used?</b>            |  |  |
|                                                         |  |  |
| <b>Describe how you have used this technology?</b>      |  |  |
|                                                         |  |  |
| <b>Give a range of benefits of this technology</b>      |  |  |
|                                                         |  |  |
|                                                         |  |  |
| <b>Give a range of disadvantages of this technology</b> |  |  |
|                                                         |  |  |
|                                                         |  |  |

## Appendix 1b

In this task you must fully describe how 4 technologies are used by individuals including you and your family/friends. You must **describe a range of** benefits and disadvantages of each technology.

|                                                                  |  |  |
|------------------------------------------------------------------|--|--|
| Technology 1 name:                                               |  |  |
| Description of the technology                                    |  |  |
|                                                                  |  |  |
| Create a guide describing in detail how this technology is used? |  |  |
|                                                                  |  |  |
| Describe in detail how you have used this technology?            |  |  |
|                                                                  |  |  |
| Give a range of benefits of this technology                      |  |  |
|                                                                  |  |  |
|                                                                  |  |  |
| Give a range of disadvantages of this technology                 |  |  |
|                                                                  |  |  |
|                                                                  |  |  |

|                                                                  |  |  |
|------------------------------------------------------------------|--|--|
| Technology 2 name:                                               |  |  |
| Description of the technology                                    |  |  |
|                                                                  |  |  |
| Create a guide describing in detail how this technology is used? |  |  |
|                                                                  |  |  |
| Describe in detail how you have used this technology?            |  |  |
|                                                                  |  |  |
| Give a range of benefits of this technology                      |  |  |
|                                                                  |  |  |
|                                                                  |  |  |
| Give a range of disadvantages of this technology                 |  |  |
|                                                                  |  |  |
|                                                                  |  |  |

|                                                                  |  |  |
|------------------------------------------------------------------|--|--|
| Technology 3 name:                                               |  |  |
| Description of the technology                                    |  |  |
|                                                                  |  |  |
| Create a guide describing in detail how this technology is used? |  |  |
|                                                                  |  |  |
| Describe in detail how you have used this technology?            |  |  |
|                                                                  |  |  |
| Give a range of benefits of this technology                      |  |  |
|                                                                  |  |  |
|                                                                  |  |  |
| Give a range of disadvantages of this technology                 |  |  |
|                                                                  |  |  |
|                                                                  |  |  |

|                                                                  |  |  |
|------------------------------------------------------------------|--|--|
| Technology 4 name:                                               |  |  |
| Description of the technology                                    |  |  |
|                                                                  |  |  |
| Create a guide describing in detail how this technology is used? |  |  |
|                                                                  |  |  |
| Describe in detail how you have used this technology?            |  |  |
|                                                                  |  |  |
| Give a range of benefits of this technology                      |  |  |
|                                                                  |  |  |
|                                                                  |  |  |
| Give a range of disadvantages of this technology                 |  |  |
|                                                                  |  |  |
|                                                                  |  |  |

## Appendix 1c

In this task you must fully explain how 5 technologies are used by individuals including you and your family/friends. You must explain a wide range of benefits and disadvantages of each technology.

|                                                                         |  |
|-------------------------------------------------------------------------|--|
| <b>Technology 1 name:</b>                                               |  |
| <b>Description of the technology</b>                                    |  |
|                                                                         |  |
| <b>Create a guide explaining in detail how this technology is used?</b> |  |
|                                                                         |  |
| <b>Explain in detail how you have used this technology?</b>             |  |
|                                                                         |  |
| <b>Give a range of benefits of this technology</b>                      |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |
| <b>Give a range of disadvantages of this technology</b>                 |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |

|                                                                         |  |
|-------------------------------------------------------------------------|--|
| <b>Technology 2 name:</b>                                               |  |
| <b>Description of the technology</b>                                    |  |
|                                                                         |  |
| <b>Create a guide explaining in detail how this technology is used?</b> |  |
|                                                                         |  |
| <b>Explain in detail how you have used this technology?</b>             |  |
|                                                                         |  |
| <b>Give a range of benefits of this technology</b>                      |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |
| <b>Give a range of disadvantages of this technology</b>                 |  |
|                                                                         |  |
|                                                                         |  |
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|                                                                         |  |
|-------------------------------------------------------------------------|--|
| <b>Technology 3 name:</b>                                               |  |
| <b>Description of the technology</b>                                    |  |
|                                                                         |  |
| <b>Create a guide explaining in detail how this technology is used?</b> |  |
|                                                                         |  |
| <b>Explain in detail how you have used this technology?</b>             |  |
|                                                                         |  |
| <b>Give a range of benefits of this technology</b>                      |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |
| <b>Give a range of disadvantages of this technology</b>                 |  |
|                                                                         |  |
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|                                                                         |  |
|-------------------------------------------------------------------------|--|
| <b>Technology 4 name:</b>                                               |  |
| <b>Description of the technology</b>                                    |  |
|                                                                         |  |
| <b>Create a guide explaining in detail how this technology is used?</b> |  |
|                                                                         |  |
| <b>Explain in detail how you have used this technology?</b>             |  |
|                                                                         |  |
| <b>Give a range of benefits of this technology</b>                      |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |
| <b>Give a range of disadvantages of this technology</b>                 |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |

|                                                                         |  |
|-------------------------------------------------------------------------|--|
| <b>Technology 5 name:</b>                                               |  |
| <b>Description of the technology</b>                                    |  |
|                                                                         |  |
| <b>Create a guide explaining in detail how this technology is used?</b> |  |
|                                                                         |  |
| <b>Explain in detail how you have used this technology?</b>             |  |
|                                                                         |  |
| <b>Give a range of benefits of this technology</b>                      |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |
| <b>Give a range of disadvantages of this technology</b>                 |  |
|                                                                         |  |
|                                                                         |  |
|                                                                         |  |

## Appendix 2a

In this task you will identify one innovation in ICT and describe its purpose. You will say how your innovation works and will give a benefit and limitation of the innovation.

|                                                                                        |  |
|----------------------------------------------------------------------------------------|--|
| <b>My chosen innovation is:</b>                                                        |  |
| <b>Reason for choice:</b> <i>(i.e. what makes this innovative, different and new?)</i> |  |
| <b>Purpose:</b><br>(ie. What can you do with this versus it's competitors):            |  |
| <b>How does it work?</b>                                                               |  |
| <b>What has it improved on? What are its benefits?</b>                                 |  |
| <b>What does it not do well or not at all? What are its limitations?</b>               |  |

## Appendix 2b

In this task you will identify one innovation in ICT and describe its purpose, considering whether the purpose is met. You will say how your innovation works and will give a range of benefits and limitations for the innovation.

|                                                                                                                                           |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>My chosen innovation is:</b>                                                                                                           |  |
| <b>Reason for choice:</b> <i>(i.e. what makes this innovative, different and new?)</i>                                                    |  |
| <b>Purpose:</b><br>(ie. What can you do with this versus its competitors):<br><b>Has the purpose been met?</b><br>Say why you think this. |  |
| <b>How does it work?</b>                                                                                                                  |  |
| <b>What has it improved on? What are its benefits?</b>                                                                                    |  |
|                                                                                                                                           |  |
|                                                                                                                                           |  |
| <b>What does it not do well or not at all? What are its limitations?</b>                                                                  |  |
|                                                                                                                                           |  |
|                                                                                                                                           |  |

## Appendix 2c

In this task you will identify one innovation in ICT and describe its purpose, considering whether the purpose is met. You will say how your innovation works and will give a range of benefits and limitations for the innovation.

- In this task you will identify one innovation in ICT and describe fully its purpose, considering to what extent the innovation achieves its purpose.
- you will say how your innovation works.
- you will give a range of benefits and limitations for the innovation.

|                                                                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>My chosen innovation is:</b>                                                                                                                                               |  |
| <b>Reason for choice:</b> <i>(i.e. what makes this innovative, different and new?)</i>                                                                                        |  |
| <b>Fully describe the purpose:</b><br>(ie. What can you do with this versus its competitors):<br><b>How successfully has the purpose been met?</b><br>Say why you think this. |  |
| <b>How does it work?</b>                                                                                                                                                      |  |
| <b>What has it improved on? What are its benefits?</b>                                                                                                                        |  |
|                                                                                                                                                                               |  |
|                                                                                                                                                                               |  |
| <b>What does it not do well or not at all? What are its limitations?</b>                                                                                                      |  |
|                                                                                                                                                                               |  |
|                                                                                                                                                                               |  |

### Appendix 3a

In this task you will give a brief definition of ecommerce. You will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience and cost. You will give an example to illustrate at least **one** of these key points.

|                                                                                                |                     |  |
|------------------------------------------------------------------------------------------------|---------------------|--|
| <b>1: Give a brief definition of ecommerce.</b>                                                |                     |  |
|                                                                                                |                     |  |
| <b>2: Give an example of an ecommerce site, explaining what type of ecommerce they provide</b> |                     |  |
|                                                                                                |                     |  |
| <b>3: How do you or your family use e-commerce.</b>                                            |                     |  |
| <i>What websites do you use most often? How has this different from a few years ago?</i>       |                     |  |
|                                                                                                |                     |  |
| <b>4: Explain how ecommerce has changed the way people buy goods and services:</b>             |                     |  |
| <b>4a: Choice</b><br>(Is there a larger selection available?)                                  | <b>Explanation:</b> |  |
|                                                                                                | <b>Example:</b>     |  |
| <b>4b: Convenient</b><br>(When can people buy?)                                                | <b>Explanation:</b> |  |
|                                                                                                | <b>Example:</b>     |  |
| <b>4c: Cost?</b><br>(Is it cheaper?)                                                           | <b>Explanation:</b> |  |
|                                                                                                | <b>Example:</b>     |  |

# Appendix 3b

In this task you will give a definition of ecommerce using examples of at least **two** different types of e-commerce website. You will explain how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience and cost, location and flexibility. You will give an example to illustrate each of **three** of these key points.

|                                                                                                                                                                                                              |                     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|
| <b>1: Give a definition of ecommerce giving at least 2 examples of different types of e-commerce websites.<br/>(e.g. supermarket, auction sites, price comparison sites, bank, specialist retailers etc)</b> |                     |  |
|                                                                                                                                                                                                              |                     |  |
| <b>Site name:</b>                                                                                                                                                                                            |                     |  |
| <b>Explain what type of ecommerce site it is and what they provide:</b>                                                                                                                                      |                     |  |
| <b>2: How do you or your family use e-commerce?<br/>What websites do you use most often? How has this different from a few years ago?</b>                                                                    |                     |  |
|                                                                                                                                                                                                              |                     |  |
| <b>3: Explain how ecommerce has changed the way people buy goods and services:</b>                                                                                                                           |                     |  |
| <b>3a: Choice</b><br>(Is there a larger selection available?)                                                                                                                                                | <b>Explanation:</b> |  |
|                                                                                                                                                                                                              | <b>Example:</b>     |  |
| <b>3b: Convenient</b><br>(When can people buy?)                                                                                                                                                              | <b>Explanation:</b> |  |
|                                                                                                                                                                                                              | <b>Example:</b>     |  |
| <b>3c: Cost</b><br>(Is it cheaper?)                                                                                                                                                                          | <b>Explanation:</b> |  |
|                                                                                                                                                                                                              | <b>Example:</b>     |  |
| <b>3d: Location</b>                                                                                                                                                                                          | <b>Explanation:</b> |  |
|                                                                                                                                                                                                              | <b>Example:</b>     |  |
| <b>3e: Flexibility</b>                                                                                                                                                                                       | <b>Explanation:</b> |  |
|                                                                                                                                                                                                              | <b>Example:</b>     |  |

### Appendix 3c

In this task you will give a detailed definition of e-commerce using examples of a range of different types of e-commerce website. You may wish to give your own impressions of such sites; better grades may be secured where further research is carried out e.g. consumer surveys. You will give a detailed explanation of how e-commerce has changed the way people buy goods and services covering the key points of choice, convenience, cost, location and flexibility. You will give an example to illustrate each of the five key points.

|                                                                                                                                                                                                               |                     |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--|--|
| <b>1: Give a definition of ecommerce giving at range of examples of different types of e-commerce websites.<br/>(e.g. supermarket, auction sites, price comparison sites, bank, specialist retailers etc)</b> |                     |  |  |
|                                                                                                                                                                                                               |                     |  |  |
| <b>Site name:</b>                                                                                                                                                                                             |                     |  |  |
| <b>Explain what type of ecommerce site it is and what they provide:</b>                                                                                                                                       |                     |  |  |
| <b>2: How do you or your family use e-commerce?<br/>What websites do you use most often? How has this different from a few years ago?</b>                                                                     |                     |  |  |
|                                                                                                                                                                                                               |                     |  |  |
| <b>3: Explain how ecommerce has changed the way people buy goods and services:</b>                                                                                                                            |                     |  |  |
| <b>3a: Choice</b><br>(Is there a larger selection available?)                                                                                                                                                 | <b>Explanation:</b> |  |  |
|                                                                                                                                                                                                               | <b>Example:</b>     |  |  |
| <b>3b: Convenient</b><br>(When can people buy?)                                                                                                                                                               | <b>Explanation:</b> |  |  |
|                                                                                                                                                                                                               | <b>Example:</b>     |  |  |
| <b>3c: Cost</b><br>(Is it cheaper?)                                                                                                                                                                           | <b>Explanation:</b> |  |  |
|                                                                                                                                                                                                               | <b>Example:</b>     |  |  |
| <b>3d: Location</b>                                                                                                                                                                                           | <b>Explanation:</b> |  |  |
|                                                                                                                                                                                                               | <b>Example:</b>     |  |  |
| <b>3e: Flexibility</b>                                                                                                                                                                                        | <b>Explanation:</b> |  |  |
|                                                                                                                                                                                                               | <b>Example:</b>     |  |  |

#### Appendix 4a

You must identify the purpose and audience for the website investigated. 'Everyone' or 'all ages/genders' is not an appropriate identification of the audience.

What is your chosen e-Commerce website?

What is its Purpose?

Who is the site designed to appeal to? Who are the Audience?

#### Appendix 4b

You must identify the purpose and audience for the website investigated. 'Everyone' or 'all ages/genders' is not an appropriate identification of the audience.

You must also describe the extent to which the site meets its aim, giving examples.

What is your chosen e-Commerce website?

What is the aim of this e-Commerce web site?

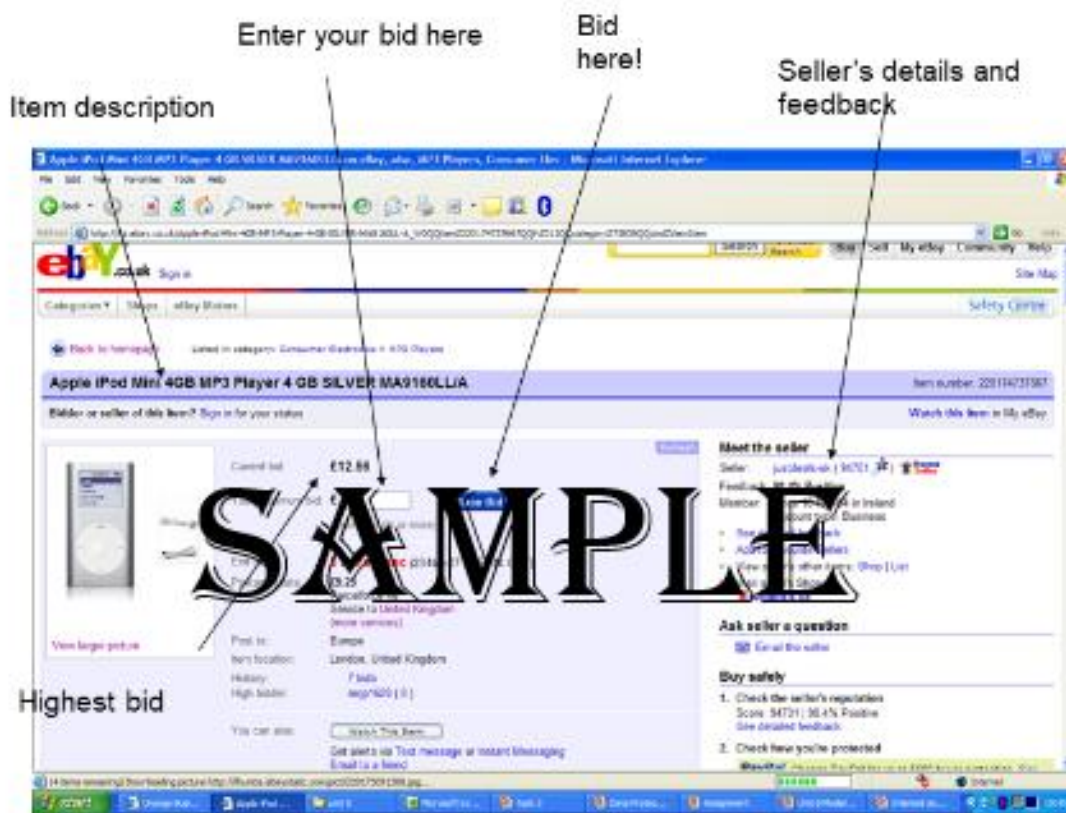
To what extent does this website meet its aims? Give examples.

What is its Purpose?

How does the web site achieve its purpose? Give examples.

Who are the Audience?

When investigating e-commerce websites it is important that you show that you understand the whole process – not just browsing and choosing items. Understanding of payment methods, including the use of secure sites should also be shown. It is possible on many e-commerce websites to follow through to the payment screen.



#### Appendix 5a – Legislation

You will describe some of the main requirements of legislation relating to data protection, copyright and computer misuse.

|                                                      |  |                  |
|------------------------------------------------------|--|------------------|
| Name:                                                |  | Date: 25/05/2023 |
| Describe the main points of the data protection act. |  |                  |
|                                                      |  |                  |
| Describe the main points of the copyright act.       |  |                  |
|                                                      |  |                  |
| Describe the main points of the computer misuse act. |  |                  |
|                                                      |  |                  |

#### Appendix 5b – Legislation

You will describe the main requirements of legislation relating to data protection, copyright and computer misuse. For each type of legislation their descriptions will include at least one example of an issue affected by it.

|                                                                                                          |  |                  |
|----------------------------------------------------------------------------------------------------------|--|------------------|
| Name:                                                                                                    |  | Date: 25/05/2023 |
| Describe the main points of the data protection act.                                                     |  |                  |
|                                                                                                          |  |                  |
| Give at least one example of an issue affected by the Data Protection legislation.<br>(e.g. in the news) |  |                  |
|                                                                                                          |  |                  |
| Explain the main points of the copyright act.                                                            |  |                  |
|                                                                                                          |  |                  |
| Give at least one example of an issue affected by the Copyright legislation.<br>(e.g. in the news)       |  |                  |
|                                                                                                          |  |                  |
| Explain the main points of the computer misuse act.                                                      |  |                  |
|                                                                                                          |  |                  |
| Give at least one example of an issue affected by the Computer Misuse legislation.<br>(e.g. in the news) |  |                  |
|                                                                                                          |  |                  |

#### Appendix 5c – Legislation

You will explain the main requirements of legislation relating to data protection, copyright and computer misuse, giving reasons for the requirements. Your explanations will be illustrated by a range of examples.

|                                                                                                                                                                   |  |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------|
| Name:                                                                                                                                                             |  | Date: 25/05/2023 |
| Explain the main points of the data protection act.                                                                                                               |  |                  |
|                                                                                                                                                                   |  |                  |
| For each of the main points of the data protection act give reasons why they are needed. (Higher marks: give a range of examples to illustrate your explanations) |  |                  |
|                                                                                                                                                                   |  |                  |
| Explain the main points of the copyright act.                                                                                                                     |  |                  |
|                                                                                                                                                                   |  |                  |
| For each of the main points of the copyright act give reasons why they are needed. (Higher marks: give a range of examples to illustrate your explanations)       |  |                  |
|                                                                                                                                                                   |  |                  |
| Explain the main points of the computer misuse act.                                                                                                               |  |                  |
|                                                                                                                                                                   |  |                  |
| For each of the main points of the computer misuse act give reasons why they are needed. (Higher marks: give a range of examples to illustrate your explanations) |  |                  |
|                                                                                                                                                                   |  |                  |

#### Appendix 5d – Moral Issues

You will briefly describe at least one moral issue related to the use of digital technology, giving a specific example to illustrate your description.

Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you – such as **civil liberties**, eg: surveillance, data collection, data storage, ID cards, airport security; **access to information**; **employment**.

|                                                                                            |  |                         |
|--------------------------------------------------------------------------------------------|--|-------------------------|
| <b>Name:</b>                                                                               |  | <b>Date: 25/05/2023</b> |
| <b>Briefly describe at least one moral issue related to the use of digital technology.</b> |  |                         |
|                                                                                            |  |                         |
| <b>Give a specific example to illustrate your description.</b>                             |  |                         |
|                                                                                            |  |                         |

#### Appendix 5e – Moral Issues

You will describe at least two different moral issues related to the use of digital technology, giving a specific example for each to illustrate your description.

Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you – such as **civil liberties**, eg: surveillance, data collection, data storage, ID cards, airport security; **access to information**; **employment**.

|                                                                                               |  |                         |
|-----------------------------------------------------------------------------------------------|--|-------------------------|
| <b>Name:</b>                                                                                  |  | <b>Date: 25/05/2023</b> |
| <b>Describe at least two different moral issues related to the use of digital technology.</b> |  |                         |
|                                                                                               |  |                         |
|                                                                                               |  |                         |
| <b>Give a specific examples to illustrate your descriptions.</b>                              |  |                         |
|                                                                                               |  |                         |
|                                                                                               |  |                         |

#### Appendix 5f – Moral Issues

You will describe at least two different moral issues related to the use of digital technology, explaining why they have occurred and discussing opposing opinions. You will use a range of examples to illustrate the issues and your descriptions will be accurate.

Ensure you check recent news/current affairs via relevant websites and/or technology magazines. You need to research moral issues which may affect you – such as **civil liberties**, eg: surveillance, data collection, data storage, ID cards, airport security; **access to information**; **employment**.

| <b>Name</b>                                                                                   | <b>Date: 25/05/2023</b> | <b>Moral issue 1</b> | <b>Moral issue 2</b> |
|-----------------------------------------------------------------------------------------------|-------------------------|----------------------|----------------------|
| <b>Describe at least two different moral issues related to the use of digital technology.</b> |                         |                      |                      |
| <b>Explain why the moral issue has occurred and give opposing opinions.</b>                   |                         |                      |                      |
| <b>Give a range of examples to illustrate the issues</b>                                      |                         |                      |                      |