

## Starting with Confidence Work

This work below will help you understand some of the work that we will be starting in September. For this handout, you will be using a web resource to help you. Please follow the **links** and **guidance** below. There are various parts to this work. Please make sure that you complete them all. These include: -

1. Different types of computers
2. Basic parts of a computer
3. Buttons and ports on a computer
4. Peripherals
5. Inside a computer
6. Operating systems
7. Applications
8. Open source and closed source software
9. Connecting to the Internet
10. What is the Cloud?
11. Understanding website terminology

### 1. Different types of computers

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Video for different types of computers](#)

| Name up to <b>8 different types of computers</b> and give an example of use in a business or at home |                  |   |
|--|------------------|---|
| 1  | Desktop computer | Used by a student to do homework whilst at home |
| 2  |                  |   |
| 3  |                  |   |
| 4  | Servers          |   |
| 5  |                  |   |
| 6  |                  |   |
| 7  | Game consoles    |   |
| 8  |                  |   |

### 2. Basic parts of a computer

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Basic parts of a computer video](#)

Watch the video on basic parts of a computer. It is only about 3 minutes long.

Answer the following questions using the web resource under the video.

| Name <b>3 components</b> found in a computer case. |  |
|--|--|
| 1  |  |
| 2  |  |
| 3  |  |

|   |  |
|---|--|
| What <b>two types of monitors</b> are called flat panel displays? |  |
| 1   |  |
| 2   |  |

|   |  |
|---|--|
| Explain how an <b>optical mouse</b> works and one advantage |  |
| Explain   |  |
| Advantage   |  |

|  |  |
|--|--|
| Describe how <b>two alternatives</b> to a mouse work |  |
| Trackball  |  |
| Touchpad   |  |

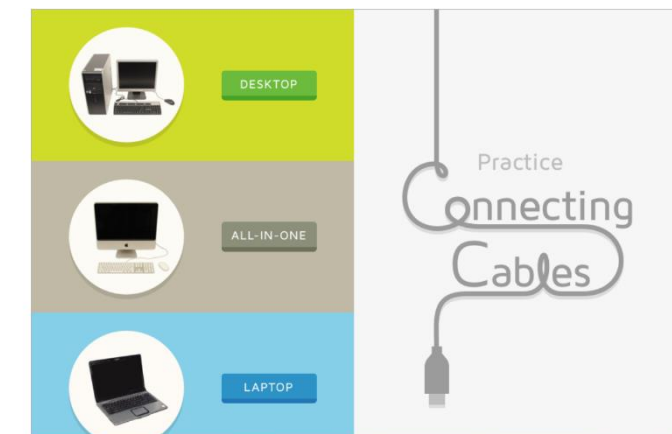
### 3. Buttons and ports on a computer

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Buttons and ports video](#)

Read the rest of the web page about ports and cables and then **have a go** at the **interactive game** called **Connecting Cables**. This is what it looks like

Try all 3 of the activities by clicking on **Desktop**, **all in one** and **laptop** in the web resource.



### 4. Peripherals

Peripherals is hardware that can be connected to a computer. There are various ones which you will be familiar with. Identify and give an example of use

Read the web resource to help you with this work. This is below the previous work on the web resource (under buttons and ports)

|   |            |   |
|---|------------|---|
| Name up to <b>8 different types of peripherals</b> and give an example of use for each in an estate agent |            |   |
| 1   | Printer    | Used by someone in an estate agent to print off house details |
| 2   |            |   |
| 3   |            |   |
| 4   | Headphones |   |
| 5   |            |   |

|   |                 |  |
|---|-----------------|--|
| 6 |                 |  |
| 7 | Game controller |  |
| 8 |                 |  |

## 5. Inside a computer

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Inside a computer video](#)

Using the web resource, describe what each of these parts do inside a computer

| Part |                              | Description of use |
|------|------------------------------|--------------------|
| 1    | CPU                          |                    |
| 2    | Heat sink                    |                    |
| 3    | RAM                          |                    |
| 4    | Hard drive Solid state drive |                    |
| 5    | Power supply                 |                    |
| 6    | Expansion slots              |                    |

Watch the video (about 2 minutes long) and read about the difference between a laptop and a desktop PC

|  |  |
|--|--|
| What are the main differences between a laptop and a desktop? Explain at <b>least 4 differences</b> that are discussed in the video and the resource |  |
| Portability  |  |
| Screen size  |  |
| How to control   |  |
| Price  |  |

## 6. Operating systems

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Operating systems video](#)

|   |
|---|
| What is the main job of the operating system? |
|   |

Read about the different types of operating systems such as Windows, macOS and Linux.

|   |
|---|
| What is the main characteristic of an open-source operating system? |
|   |

## 7. Applications

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Applications video](#)

Using your prior knowledge of applications, give an example of the use of each of the below.

| Application |                | Example of use by a student or a teacher in a college |
|-------------|----------------|---|
| 1           | Word Processor |   |
| 2           | Spreadsheet    |   |
| 3           | Web browser    |   |
| 4           | Media player   |   |
| 5           | Instagram      |   |
| 6           | Gmail          |   |

## 8. Open source and closed source software

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Open source and closed source software video](#)

Watch the video on open source and closed source software. The video is only about 3 minutes long.

|   |
|---|
| Give an example of closed source software |
|   |

|   |
|---|
| Give an example of open-source software |
|   |

|  |  |
|--|--|
| Open source: Explain the advantages and disadvantages for each |  |
| Advantages   |  |
| 1  |  |
| 2  |  |
| Disadvantages  |  |
| 1  |  |
| 2  |  |

|   |  |
|---|--|
| Closed source software: Explain the advantages and disadvantages for each |  |
| Advantages  |  |
| 1   |  |
| 2   |  |
| Disadvantages   |  |
| 1   |  |
| 2   |  |

## 9. Connecting to the Internet

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[Connecting to the Internet video](#)

Watch the video about connecting to the Internet and read the web resource below the video. The video is only about 4 minutes long.

|  |  |
|--|--|
| Describe the <b>characteristics</b> of the main types of Internet connection. State how fast they are and any other characteristics. |  |
| Dial-up  | This is the slowest form of Internet connection. This connects via a phone line. You cannot use the phone line for calling people at the same time as you are using the Internet |
| DSL / Cable  |  |
| Fibre optic  |  |
| Cellular   |  |

|   |
|---|
| What is the purpose of a wireless router? |
|   |

|  |
|--|
| What must you do correctly before using a home wireless network? |
|  |

## 10. What is the Cloud?

Use the following video (click on the link below) and web resource (the text below the video) to help you with this work.

[What is the cloud video](#)

Watch the video on What is the Cloud and read the web resource below the video. The video is only about 3 minutes long.

|  |
|--|
| Describe what the cloud is in your own words and what it is used for |
|  |

|   |
|---|
| What is the <b>difference</b> between web apps and normal apps? |
|   |

|  |  |
|--|--|
| Using the cloud: Explain <b>two advantages</b> and <b>two disadvantages</b> of using the cloud |  |
| <b>Advantages</b>  |  |
| 1  |  |
| 2  |  |
| <b>Disadvantages</b>   |  |
| 1  |  |
| 2  |  |

## 11. Understanding website terminology

Websites terminology is vital to understanding Unit 3. Below are some key terms that you need understand. Using research resources, complete the key terms with examples of use and how these terms are used in website design.

<https://www.creativebloq.com/web-design/terms-31410954>

<https://www.smashingmagazine.com/2009/05/web-design-industry-jargon-glossary-and-resources/>

<https://jammydigital.com/web-design-seo-jargon/>

<https://3mil.co.uk/the-a-z-of-web-design/>

<https://www.pagecloud.com/blog/website-terminology>

| Key term                         | What does this mean? Do you have an idea of what these terms mean? Exemplify if this makes things easier   |
|----------------------------------|--|
| Target audience                  | This is the people who will be interested in using your website. This can range from factors such as age, gender, location, income. An example is the Top Shop website. The target audience is females in the UK, aged teenagers to middle aged in the UK with a reasonable disposable income. |
| Search engine optimisation (SEO) |  |
| Meta Data                        |  |
| Keywords                         |  |
| Web server                       |  |
| Server-side scripts              |  |
| Client-side scripts              |  |
| Browser compliance               |  |
| Upload and download speeds       |  |
| Browser                          |  |
| Cache memory                     |  |
| Interactivity                    |  |
| White space                      |  |
| Accessibility                    |  |
| Typography                       |  |
| Content                          |  |
| Media queries                    |  |
| Navigation                       |  |
| CSS                              |  |
| JavaScript                       |  |
| Hyperlink                        |  |
| Landing Page                     |  |
| E-Commerce                       |  |
| Site map                         |  |
| Responsive website               |  |
| File Transfer Protocol (FTP)     |  |