



# IT & Computing

## iGCSE ~ Personal Website

### 4<sup>th</sup> & 5<sup>th</sup> Form ~ 2017 exam date onwards

During your iGCSE course you will be building a personal website with pages covering all of the topics we will cover. These pages will cover the theory topics plus give you practice in creating and updating websites.

Your website will be a sub-domain of **www.pupil.me.uk** and will follow the patterns of:

**www.forename.pupil.me.uk**

### Software

We will be using the following software to create and maintain the site:

**MS Expression** – html page editing – ftp & site upload/download

**Paint.Net** – graphics creation – photo editing – graphics conversion

**GIMP** – graphics creation – photo editing – graphics conversion

**NotePad** – html page editing – contents editing – style clearing

**Notepad++** – html page editing

**MS Word** – prepare all the words in MS Word – these can be copied and pasted when ready

**MS Excel** – diagrams & charts

**MS PowerPoint** – presentations – graphics conversion

**MS Explorer** – view website

We may also explore the use of alternative software for some tasks.

**Dreamweaver** – html page editing – ftp & site upload/download

**Fireworks** – graphics creation – photo editing – graphics conversion

### Scrollers

Some of the webpages will require a little ingenuity to fit the content onto the page.

#### HTML for DIV Scroller

Start TAG

```
<BR><div style="border:1px solid
#6600FF;width:475px;height:200px;overflow:scroll;overflow-y:scroll;overflow-x:hidden;">
```

End TAG

```
</div><BR>
```

### Adding Content

Webpages will pick up on the style from previous documents the content has been held in.

1. Type everything in MS Word to check the spelling and grammar.
2. Copy everything into NotePad to clear the styles.
3. Then copy it from NotePad into MS Expression.

### CSS Styles

We will add a Cascading Style Sheet – CSS – to the website later to restyle it.

### Citing Sources

You must acknowledge the sources for all information and downloads which are not your own work.

## Web Pages

Page	Contents
Home Page	<p><b>Introduction to the course</b></p> <ol style="list-style-type: none"> <li>1. What the website is for: Your theory notes and revision for the CIE iGCSE 0417 course</li> <li>2. Who you are - minimal, this will be public</li> </ol> <p><b>Images</b></p> <ol style="list-style-type: none"> <li>1. Photo of you - or something relevant to you</li> </ol> <p><b>Downloads</b></p> <ol style="list-style-type: none"> <li>1. <b>Syllabus</b> - from <a href="http://www.cie.org.uk">www.cie.org.uk</a> – this is dated for the exam year</li> <li>2. <b>Scheme of Work</b> - from PupilData</li> <li>3. <b>Web pages</b> - from PupilData – this file</li> <li>4. <b>Revision checklist</b> – from PupilData</li> </ol> <p><b>Links</b></p> <ol style="list-style-type: none"> <li>1. Cambridge International Examination Board <a href="http://www.cie.org.uk">www.cie.org.uk</a></li> <li>2. Website dedicated to the CIE 0417 course <a href="http://www.igcseict.info">www.igcseict.info</a></li> <li>3. BCS – The Chartered Institute for IT <a href="http://www.bcs.org">www.bcs.org</a></li> <li>4. Link to your student webpages <a href="http://www.pupil.me.uk">www.pupil.me.uk</a></li> <li>5. w3schools – HTML &amp; CSS tutorial and help pages <a href="http://www.w3schools.com">www.w3schools.com</a></li> </ol>

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<b>Computer Defined</b>	<p><b>What is a Computer?</b></p> <ol style="list-style-type: none"> <li>1. Define what a computer is - paragraph</li> <li>2. Diagrams - MS Excel to create &amp; PowerPoint to convert to jpeg/png               <ol style="list-style-type: none"> <li>a. Computer Model 1</li> <li>b. Computer Model 2</li> </ol> </li> </ol> <p><b>Why do we use Computers? – give an example for each reason</b></p> <ol style="list-style-type: none"> <li>1. Storing large amounts of Data</li> <li>2. Rapid processing of Data to produce Information</li> <li>3. Communication</li> </ol> <p><b>History - list of examples and why they were developed</b></p> <ol style="list-style-type: none"> <li>1. Babbage - analogue</li> <li>2. WW2 Bombe &amp; Colossus</li> <li>3. Post war LEO - early electronic</li> <li>4. 1980s - PCs</li> <li>5. Modern - some examples</li> </ol> <p><b>Images</b></p> <ol style="list-style-type: none"> <li>1. Photos to suit list above Use a separate row of the main table for each topic to allow the images to sit alongside the text.</li> </ol> <p><b>Downloads - 5 worksheets</b></p> <ol style="list-style-type: none"> <li>1. Inputs</li> <li>2. Outputs</li> <li>3. Storage Media</li> <li>4. Computer Parts</li> <li>5. Computer Definitions – to be added later</li> <li>6. Software – to be added later – see Software</li> </ol>

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Types of Computers	<p><b>Types of Computer –</b></p> <p>Explain why we have different types of computer.  <b>NB</b> – these are not different makes of computer.</p> <ol style="list-style-type: none"> <li>1. Mainframes</li> <li>2. Mini Computers</li> <li>3. PCs</li> <li>4. Laptops</li> <li>5. Tablet</li> <li>6. Smart Phone – PDAs – Personal Digital Assistant</li> <li>7. Smart Watch</li> <li>8. Game Controller/Console</li> <li>9. Control Systems <ol style="list-style-type: none"> <li>a. Factory/industrial <ol style="list-style-type: none"> <li>i. Machine monitoring/control</li> <li>ii. Robotic productions systems</li> <li>iii. Hazardous environments</li> </ol> </li> <li>b. Domestic <ol style="list-style-type: none"> <li>i. Fridges</li> <li>ii. Washing machine</li> <li>iii. Burglar alarms</li> </ol> </li> <li>c. Car management <ol style="list-style-type: none"> <li>i. Sensors</li> <li>ii. Fuel control</li> <li>iii. Driverless cars</li> </ol> </li> </ol> </li> </ol> <p><b>Images</b></p> <ol style="list-style-type: none"> <li>1. Photos to suit list above</li> </ol> <p>Use a separate row of the main table for each topic to allow the images to sit alongside the text.</p>

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