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|  | 1. **Understand computer hardware** |
| 1.1 Computer hardware, i.e.:  •input devices  •output devices  •communications devices  •benefits (e.g. integrated devices make portable devices simpler to use)  •limitations (e.g. voice recognition performs poorly in noisy environments)  •uses (e.g. membrane keyboard) | |
| Learners should know about the different types of computer hardware required for a variety of computer systems.  This should lead into learners developing their understanding of their benefits, limitations and uses. | |

**General Notes:**

**Input Devices List –** List out six input devices with descriptions

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**What is an input device?**

What is a manual input device?

What is an automatic input device?

What is a central processing unit?

**Output Devices List –** List out six output devices with descriptions

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**Communication Devices List –** List out six communication devices with descriptions

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What is a storage devices used for? What are the different storage devices that are around?

**Storage Devices List –** List out six storage devices with descriptions

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**Peripheral Devices List –** List out six peripheral devices with descriptions

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Get images for the following and write out some comments about how the hardware changes for each of these different systems.

**Personal Computer**

**Laptop**

**Mobile Phone**

**Server**

**Supercomputer**

**Mini Computer**

**Mainframe computer**

What are the benefits and limitations of hardware? How can these limitations be overcome?

**Integrated devices (graphics card and sound card all in one)**

**Smaller, more powerful devices**

**Touchscreens and flexible screens**

**Speakers and microphones**

**Peripheral devices like printers and scanners#**

**Input and output devices**

**Central processing unit**

**Secondary storage devices like hard drives**

**Screens and monitors**