Name: Class:

Task 1

Computers often contain the following components:

* Cables • Mouse
* Keyboard • Display
* Case • Motherboard
* Hard drive • RAM
* CPU, heatsink and fan

The table below shows a number of different materials used in a computer. Complete the table to show in which component(s) the materials are most likely to be used.

The first row has been completed for you.

|  |  |
| --- | --- |
| **Material** | **Component(s) the material is used in** |
| Steel | Hard drive, case |
| Gold |  |
| Copper |  |
| Aluminium |  |
| Fibreglass |  |
| Plastic |  |

Task 2

(a) The use of computers and devices has led to damage to the environment from production and a large amount of e-waste being produced.

 Research some **five** negative impacts on the environment and people of the use of computers and electronic devices and list at least **five** below.

(b) Some uses of modern technology can have a positive impact on the environment.

 Research some of these positive impacts and note down at least **five** below.

Task 3

Planned obsolescence is the name given to products that have been designed to have a limited useful life.

Research ‘planned obsolescence’.

Some suggested sites that you may wish to use include:

<https://www.bbc.com/future/article/20160612-heres-the-truth-about-the-planned-obsolescence-of-tech>

<https://www.forbes.com/sites/adamsarhan/2017/12/22/planned-obsolescence-apple-is-not-the-only-culprit/#594228a3cf24>

<https://www.computerdisposals.co.uk/news/planned-obsolescence-is-technology-programmed-to-fail/>

(a) Explain at least **three** ways that companies can design products with planned obsolescence.

(b) Explain at least **three** environmental impacts of planned obsolescence.

(c) Explain at least **two** cultural impacts of planned obsolescence.

(d) Explain at least **two** benefits for companies in designing products with planned obsolescence.