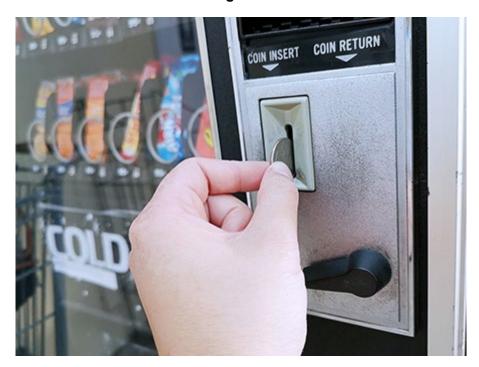
Questions are for both separate science and combined science students

Q1.

Figure 1 shows a student putting a coin into a vending machine that sells food.

Figure 1



(a) The vending machine is connected to the mains electricity supply.

What is the frequency and the potential difference of the mains electricity supply in the UK?

Frequency =	Hz	
Potential difference =		V

(2)

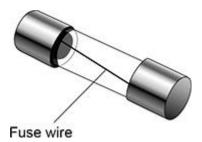
(Total 2 marks)

Q2.

The live wire in a three-core cable is connected to a fuse inside a plug.

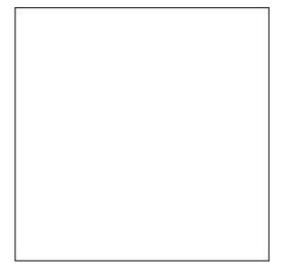
A fuse contains a wire that is designed to melt when the current gets too great.

The figure below shows a fuse.



(a)	What colour is the insulation covering the live wire in a three-core cable?	
		(1)

(b) Draw the circuit symbol for a fuse in the box below.



(1)

(Total 2 marks)