Name: ..... **Form:** .....

Based on **pages 16 and 17** of *Changing circuits*

Fuses

Try this…

1. Read this: **The size of the current flowing through a wire is measured in amps. The symbol for amps is A.**

2. Look at the three pieces of fuse wire. One can carry a current of 3A, another a current of 15A and the third a current of 30A. Just by looking at the wires, predict which size current each wire can carry. Explain your answer.

✎ .....

✎ .....

✎ .....

3. Look at a fuse and describe it.

✎ .....

✎ .....

4. Look at the position of a fuse in a plug. Describe how the fuse is held in place.

✎ .....

5. Read this: **Electricity is a form of energy. It can be converted into other forms of energy such as light and heat. The speed with which something changes from one form of energy to another is called its power. Power is measured in units called watts. The symbol for watts is W. Low power devices work below 700W and need a 3A fuse. High power devices work above 700W and need a 13A fuse.**

6. Look at the power of these electrical devices and write down the size of fuse each one needs.

Item	Power needed	Fuse needed
Iron	over 700W	
CD player	below 700W	
Vacuum cleaner	over 700W	
Hair dryer	below 700W	
Toaster	over 700W	
Table lamp	below 700W	