

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

Your teacher may watch to see if you can:

- read the scale on a thermometer
- work safely with burning materials.

**Aim**

You are going to compare the amounts of energy stored in different foods.

**Introduction**

Our bodies get the energy we need from the energy stored in food. Different kinds of food store different amounts of energy.

**Method**

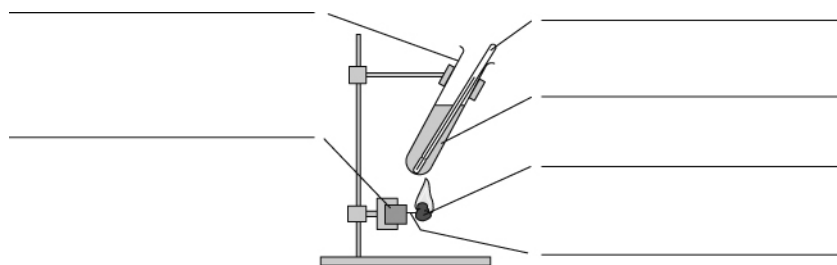
**Apparatus**

- different kinds of food
- eye protection
- cork
- water
- clamp stand
- measuring cylinder
- Bunsen burner
- pin
- thermometer
- boiling tube

**⚠** Wear eye protection.  
Do not eat any of the foods.

boiling tube      cork      food  
pin      thermometer      water

Label this diagram using words from the box.



Fill in the missing words using words from the box below.

- A** I will heat some water using the energy from a \_\_\_\_\_.
- B** I will make it a fair test by using the \_\_\_\_\_ amount of water each time and holding the burning food the same \_\_\_\_\_ from the boiling tube.
- C** I will measure the volume of the water using a \_\_\_\_\_ and pour it into a boiling tube.
- D** I will measure the temperature of the water using a \_\_\_\_\_.
- E** I will \_\_\_\_\_ the experiment with the other foods.

distance      measuring cylinder      piece of food      repeat      same      thermometer

**Recording your results**

1 Record your results in the table.

| Food | Temperature at the beginning (°C) | Temperature at the end (°C) | Temperature difference (°C) |
|------|-----------------------------------|-----------------------------|-----------------------------|
|      |                                   |                             |                             |
|      |                                   |                             |                             |
|      |                                   |                             |                             |
|      |                                   |                             |                             |

**Considering your results/conclusions**

2 When the food burned the energy stored in it was transferred to the water and made it hotter.

The food that gave the highest temperature was the \_\_\_\_\_.

This is the food which stores the \_\_\_\_\_ energy.

**I can...**

- carry out a fair investigation
- draw a conclusion.