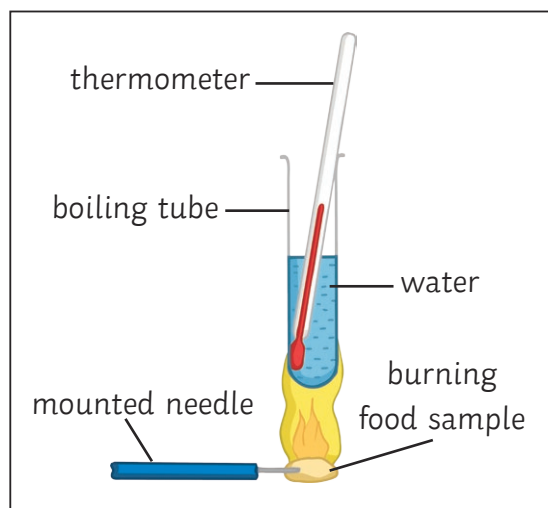


## Exam-Style Questions 2

Pupils were investigating the energy content of different foods.

They used the following method and equipment:

- 10cm<sup>3</sup> of cold tap water was poured into a boiling tube and the temperature recorded.
- A small piece of food was placed onto a mounted needle and set alight using a Bunsen burner.
- The burning food was placed under the boiling tube until it stopped burning.
- The end temperature was recorded.



1. Name 2 safety precautions the pupils needed to take.

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2. Name the independent variable and dependent variable.

Independent variable: \_\_\_\_\_

Dependent variable: \_\_\_\_\_

3. Explain 2 ways the pupils could change the method to make it a fairer test.

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4. Of the three nutrient groups (minerals, fats, proteins) which would have the highest energy?

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# Exam-Style Questions 2 Answers

1. Name 2 safety precautions the pupils needed to take.

**Wear goggles**

**Ensure burning food is over a safety mat**

**(Other answers may be accepted at the teacher's discretion)**

2. Name the independent variable and dependent variable.

Independent variable: **Type of food**

Dependent variable: **Change in temperature**

3. Explain 2 ways the pupils could change the method to make it a fairer test.

**Use the same amount of food**

**Change the water every time**

4. Of the three nutrient groups, minerals, fats, proteins, which would have the highest energy?

**Fats**

