

Name:

Date:

KS2 Quiz

Unit title: Making connections: How reflective are space blankets?

1 What is a control variable?

- A Something you measure.
- B Something you change.
- C Something you keep the same.
- D Something left out of the experiment.

2 Which piece of equipment is most accurate at measuring temperature?

- A A glass thermometer.
- B A digital thermometer.
- C A strip thermometer.
- D A strip thermometer.

3 Which of these is a prediction?

- A A warm bottle wrapped in a space blanket may lose heat faster than one without.
- B After 25 minutes, the water had cooled by 12 °C.
- C What is the pattern between time and heat loss?
- D We should wrap one plastic bottle in a space blanket and leave the other one bare.

**4 What important control variable is missing from this method step?
Pour... ..40 °C water into the plastic bottle**

- A ...carefully...
- B ...150 ml...
- C ...warm...
- D ...pure...

5 Which is the anomalous result (result that does not fit the pattern)?

- A 26.
- B 38.
- C 39.
- D 35.

6 Which label is incorrect on this line graph?

- A With space blanket.
- B Control (without space blanket).
- C Time (minutes).
- D Time (°C).

7 What result would you expect for the control after 40 minutes?

- A 20.
- B 23.
- C 33.
- D 30.

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8 Which of these could form part of a conclusion?

- A** A warm bottle wrapped in a space blanket may lose heat faster than one without.
- B** After 25 minutes, the water had cooled by 12 °C.
- C** What is the pattern between time and heat loss?
- D** We should wrap one plastic bottle in a space blanket and leave the other one bare.

9 Which of these does not improve the degree of trust?

- A** Testing more than two categories.
- B** Taking repeat readings and calculating an average.
- C** Keeping the control variables the same.
- D** Estimating the results.

10 Write a method to test five space blanket brands and determine the best.