

Name:

Date:

KS2 Quiz

Unit title: How does light affect the direction of plant growth?

**1 What is a control variable?**

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

**2 Which of these is an observation from a results table?**

- A I think the micro-peas will grow towards the light.
- B The micro-peas had all bent to the left towards the light source.
- C What is the relationship between light source position and plant growth?
- D Plants need to grow towards the light so they can make food.

**3 Which of these is a prediction?**

- A I think the micro-peas will grow towards the light.
- B The micro-peas had all bent to the left towards the light source.
- C What is the relationship between light source position and plant growth?
- D Plants need to grow towards the light so they can make food.

**4 Which factor is not essential to keep the same when investigating phototropism?**

- A Plant growth.
- B Amount of water.
- C Plant species.
- D Soil type.

**5 Which statement about the observations in this results table is true?**

- A The results for 'light above' are all anomalous.
- B The results do not show a pattern of phototropism.
- C The results all show a pattern of phototropism.
- D The results are not reliable because they are all different.

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**6 Why could we not plot a line graph for our results?**

- A** The results are numerical.
- B** The results should be plotted in a line graph.
- C** A bar chart cannot be used for categories like direction of the light.
- D** The results are written observations.

**7 What would you expect to observe after four weeks of growing this plant?**

**A**

**B**

**C**

**D**

**8 Which of these could form part of a conclusion?**

- A** This is because plants can sense light and they need light to grow.
- B** All the results fit the pattern.
- C** The pattern was that all the plants had grown towards the light source.
- D** All of the above.

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

- A** Testing multiple categories (positions of the light source).
- B** Observing for more than one week.
- C** Keeping the control variables the same.
- D** Using only your groups results.

**10 Write a method to prove gravitropism.**