

Plant hormones: practice questions

2 questions • 6 marks • mark scheme at the back

For AQA GCSE Biology 8461 and Combined Science: Trilogy 8464. **Triple only** is not in Combined Science. **Higher tier** is only on the Higher paper.

Name

Total / 6

1 **Triple only** [3 marks]

In a required practical, a student grew seedlings in a box with a slit that let light in from one side only. After three days the shoots had bent towards the slit. Explain why.

2 **Triple only** **Higher tier** [3 marks]

Give three ways in which plant hormones are used in agriculture, horticulture or the food industry.

Mark scheme

One mark for each point unless a maximum is given. Words in brackets are not needed for the mark.

1. [3] Triple only

- auxin is unequally distributed / builds up on the shaded side of the shoot (1)
- cells on the shaded side grow (elongate) faster (1)
- so the shoot bends towards the light (1)

2. [3] Triple only Higher tier

- auxins as weed killers / rooting powders / for tissue culture (1)
- ethene to control ripening of fruit during storage and transport (1)
- gibberellins to end seed dormancy / promote flowering / increase fruit size (1)
- allow any three different uses
- Max 3