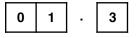
0 1	Plants have hormones which help them to grow. Auxins are hormones that control the direction of growth of roots and shoots
	The diagram below shows the effect of auxins on a root and a shoot
Dia	Agram 1 After 24 hours
	Shoot
	Root
0 1 . 1	Describe the effect of auxins in roots and shoots which causes the changes shown in the diagram [2 marks]
	Roots
	Shoots
	Another effect observed in shoots is called phototropism. Phototropism is the response of shoots to light. The diagram shows the effect of light on a shoot
	Diagram 2 After 24 hours
	Light Light
	Explain how the interaction of auxin and light causes the effect shown in Diagram 2. [3 marks]

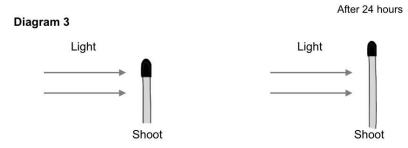


0

1

4

In another experiment, a shoot was set up in the same way as Diagram 2. In addition, a small cap was added to the tip of the shoot. Diagram 3 shows the results of the experiment.



What conclusion can be drawn about the part of the shoot that detects the light? [1 mark]

Suggest why the conclusion might not be accepted based on the experiment being carried out as shown in **Diagram 3.**

[1 mark]