

05.2	The scientists concluded that an increase in phosphate in the embryo was linked to growth of the embryo.
	Suggest two reasons why an increase in phosphate can be linked to growth of
	[2 marks]
	1
	2
0 5 . 3	Calculate the ratio of the mean mass of phosphate found at 5 °C to the mean
	mass of phosphate found at 25 °C after 9 weeks of chilling. [1 mark]
	Ratio =
	Question 5 continues on the next page

0 5.4 The chilling requirement of seeds of certain plant species is considered to be an adaptation for survival in countries with seasonal changes in environmental conditions. Suggest how this adaptation may enable these plant species to survive and respond to seasonal changes. [3 marks]

