SCIENCE

A.2.1.5, B.3.2.3
This is a Short Open-Ended (SOE) and

This is a Short Open-Ended (SOE) question. It is worth two points. Use the table below to answer question 14.

Plant Flowering Experiment

		Number	of Hours	Receives	Produces
Species	Plant	In Light	In Dark	15 Minutes of Light during Dark Period?	Flowers?
	1	14	10	no	yes
X	2	10	14	yes	yes
	3	10 14 no	no		
	4	14	10	no	no
Y	5	14	10	yes	no
	6	10	14	no	yes

14. A gardener wanted two plant species in his house to flower at the same time. He read that light is one factor that can affect whether plants produce flowers. The gardener designed an experiment to determine the effect of light on his two plant species (X and Y). He placed three plants of each species in separate rooms. Each plant was exposed to periods of light and dark. Some plants received an additional 15 minutes of light at the same time during the dark period. The results of the gardener's experiment are shown in the table.
