



Modelling the Seasons



Aim	To use a datalogger to see how conditions vary at a point on earth as the globe rotates.
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Prediction*	<p>Sketch graphs showing the variation in temperature and light levels you would expect to find as the globe slowly rotates near a heat lamp.</p> <p style="text-align: center;">Temperature</p> <div style="text-align: center;"> </div> <p style="text-align: center;">Light</p> <div style="text-align: center;"> </div>
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Apparatus	Globe, heat lamp, light sensor, temperature sensor, datalogger, leads, computer and monitor.
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Method*	Diagram*
<ol style="list-style-type: none"> Fix the light and _____ sensors to the globe, and connect the hardware together. Start the _____. Slowly turn the _____. Make sure it rotates at a constant rate, taking between 1 and 2 minutes to rotate completely. Use the graph (or otherwise) to fill in the results table over the page. Analyse your data. 	



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Results*	Time (seconds)	Temp. (°C)	Light (units)
	0		
	10		
	20		
	30		
	40		
	50		
	60		
	70		
	80		
	90		
	100		
	110		
	120		
Conclusion*	<p>What do the results suggest?</p> <p>How did the results compare with your prediction?</p> <p>How do you think the pattern of your results compares to the variation found on earth? Suggest reasons for any differences.</p>		
Evaluation*	<p>Was your experiment suitable for finding out about the variation in conditions involved? What errors were there? How could the experiment have been improved?</p>		