



# Modelling the Seasons



<b>Aim</b>	To use a datalogger to see how conditions vary at a point on earth as the globe rotates.
<b>Prediction*</b>	<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;"><b>Temperature</b></p> <div style="text-align: center;"> </div> <p style="text-align: center;"><b>Light</b></p> <div style="text-align: center;"> </div>

<b>Apparatus</b>	Globe, heat lamp, light sensor, temperature sensor, datalogger, leads, computer and monitor.
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<b>Method*</b>	<b>Diagram*</b>
<ol style="list-style-type: none"> <li>1. Fix the light and _____ sensors to the globe, and connect the hardware together.</li> <li>2. Start the _____.</li> <li>3. Slowly turn the _____. Make sure it rotates at a constant rate, taking between 1 and 2 minutes to rotate completely.</li> <li>4. Use the graph (or otherwise) to fill in the results table over the page.</li> <li>5. Analyse your data.</li> </ol>	



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<b>Results*</b>	<b>Time (seconds)</b>	<b>Temp. (°C)</b>	<b>Light (units)</b>
	0		
	10		
	20		
	30		
	40		
	50		
	60		
	70		
	80		
	90		
	100		
	110		
	120		
<b>Conclusion*</b>	<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>		
<b>Evaluation*</b>	<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>		