




## 1.1.2 The Scientific Method

### Self-Assessment

#### Where is your learning at?

Green: I know it all  
 Orange: I have some idea – check the answers  
 Red: I need to start studying this section




	<b>Can You</b>	<b>Green</b> 	<b>Orange</b> 	<b>Red</b> 
1	State the process of the Scientific Method			
2	Elaborate on each of the following: (a) Observation, (b) Hypothesis, (c) Design experiment, (d) Collect & Interpret Data, (e) Conclusions, (f) Compare to Existing Knowledge (g) Reporting, (h) Developing Theory & Principle			
3	State the limitations of: (a) Value of the Scientific Method (including extent of basic knowledge), (b) Basis of investigation, (c) Application to the natural world in a state of change, (d) Accidental discovery.			
4	State some possible sources of errors			

## 1.1.3 Experimentation

### Self-Assessment

#### Where is your learning at?

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	<b>Can You</b>	<b>Green</b> 	<b>Orange</b> 	<b>Red</b> 
1	State the Principles of experimentation.			
2	Explain each of the following in relation to experimentation: <ul style="list-style-type: none"> <li>➤ Planning &amp; Design</li> <li>➤ Safety Procedures</li> <li>➤ Experimental Control</li> </ul>			
3	Say why the following are important in experimentation: <ul style="list-style-type: none"> <li>➤ Sample Size</li> <li>➤ Random Selection</li> <li>➤ Replicates</li> <li>➤ Double-Blind Testing</li> </ul>			