

Purpose: To *plan* & do a **controlled experiment** to test a **hypothesis** about a relationship between two **variables**.

Instructions: Read & follow 'Part A' of the procedure starting on page A-21 in your book. Complete steps 1-6 below to *plan* your **experiment**. Then, read & follow 'Part B' of the procedure in your book. Complete steps 7-9 to *conduct* your **experiment**.

<p>Step 1: State the purpose of the investigation.</p> <hr/> <hr/>			
<p>Step 2: Identify the study subject, manipulated variable, & responding variable. (6pt 2pt ea)</p> <p>SS = _____</p> <p>MV = _____</p> <p>RV = _____</p>	<p>Step 3: State your scientific question. (4 pt) ("How does/will SS + MV affect RV?")</p> <hr/> <hr/> <hr/>		
<p>Step 4: Identify the experimental trial & control trial.</p> <p>ET = (2pt) _____</p> <hr/> <hr/> <hr/> <p>CT = (2pt) _____</p> <hr/> <hr/> <hr/>	<p>Step 5: (4pt) State a hypothesis (about the class's ability to detect 2 point touch vs. 1 point.</p> <p>IF (SS + MV) _____</p> <hr/> <p>THEN (ET + Prediction) _____</p> <hr/> <hr/> <p>COMPARED TO (CT) _____</p> <p>BECAUSE (SS, MV, RV & Reason Why) _____</p> <hr/> <hr/> <p>THEREFORE _____</p>		
<p>Step 6: List the controlled and uncontrolled variables in the experiment.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;"> <p><u>Controlled Variables</u> (min of 2 valid) (2pt)</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> </td> <td style="width: 50%; border: none; vertical-align: top;"> <p><u>Uncontrolled Variables</u> (min of 2 valid) (2pt)</p> <p>List 2 or more that may affect data and cause error.</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p> </td> </tr> </table>		<p><u>Controlled Variables</u> (min of 2 valid) (2pt)</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>	<p><u>Uncontrolled Variables</u> (min of 2 valid) (2pt)</p> <p>List 2 or more that may affect data and cause error.</p> <p>1. _____</p> <p>2. _____</p> <p>3. _____</p> <p>4. _____</p> <p>5. _____</p>
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