

Using the Scientific Method

Name _____ Date _____

To the right, rate each area on a scale from 10 (outstanding) to 1 (needs improvement). On the blanks to the left, mark a "+" for a strength or a "-" for an area that needs improvement.

	Points Possible	Total Points
<p>Conducts research on the topic to be tested.</p> <p><input type="checkbox"/> Gathers and summarizes relevant information.</p> <p><input type="checkbox"/> Clearly states the problem to be tested.</p> <p><input type="checkbox"/> Develops a hypothesis for testing the problem.</p>	10	_____
<p>Develops procedures for testing the hypothesis.</p> <p><input type="checkbox"/> Identifies what will be kept constant (the same).</p> <p><input type="checkbox"/> Identifies what will be varied (changed).</p> <p><input type="checkbox"/> Defines exact steps to follow.</p> <p><input type="checkbox"/> Gathers and sets up materials and equipment.</p>	10	_____
<p>Carries out the test of the hypothesis.</p> <p><input type="checkbox"/> Keeps constants the same.</p> <p><input type="checkbox"/> Changes variables as planned.</p> <p><input type="checkbox"/> Follows exact steps and procedures.</p>	10	_____
<p>Gathers and summarizes data.</p> <p><input type="checkbox"/> Keeps accurate track of data from test.</p> <p><input type="checkbox"/> Organizes the data (information) in tables.</p> <p><input type="checkbox"/> Summarizes data.</p> <p style="margin-left: 20px;"><input type="checkbox"/> - report exactly as it is found</p> <p style="margin-left: 20px;"><input type="checkbox"/> - include all pertinent data</p>	10	_____
<p>Draws conclusions.</p> <p><input type="checkbox"/> Conclusions are logical outgrowths from data.</p> <p><input type="checkbox"/> Conclusions directly address question.</p>	10	_____
<p>Makes recommendations.</p> <p><input type="checkbox"/> Recommendations are based on conclusions.</p> <p><input type="checkbox"/> Recommendations include questions for further study.</p>	10	_____

Goes Beyond : (extra effort, depth, quality, creativity, cleverness, understanding)

Comment:

Grade