

Grade 8 Natural Science Worksheet

Scientific investigation

Steps in a scientific investigation

Choose the correct option to complete each statement.

1. The first step in any problem-solving experiment is to (identify the problem/collect equipment together).
2. The method used by scientists for solving problems is the (control/scientific method).
3. A prediction about a problem that can be tested is a (hypothesis/conclusion).
4. A (variable/control) is a standard for comparison in an experiment.
5. A (variable/control) is a changeable factor in an experiment.
6. The best experiments only test one (variable/control) at a time.
7. If a conclusion does not support the hypothesis, then (the experiment did not work properly/the hypothesis should be revised).
8. The hypothesis always follows the (aim/research question).
9. A fair test will always (test only one variable/have a hypothesis).
10. (Results/Conclusions) always follow directly after the method.

[10 marks]

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Suggested Solutions

Question number	Possible marks	Solution
1	1	Identify the problem.
2	1	Scientific method.
3	1	Hypothesis.
4	1	Control.
5	1	Variable.
6	1	Variable.
7	1	The hypothesis should be revised.
8	1	Research question.
9	1	Only test one variable.
10	1	Results.