

# SCIENCE EXPERIMENTS



## The Answer Key

### True or False

- 1. True
- 2. True
- 3. True
- 4. False
- 5. True

### Multiple Choice

- 1. B) Chemical
- 2. C) Physical
- 3. A) Chemical
- 4. B) Physical
- 5. C) Chemical

## Science Experiments

### Reading Comprehension

Science experiments are undertaken to understand phenomena under study. They often involve manipulating variables in an attempt to prove or disprove a hypothesis based on current evidence. The results of such experiments are often communicated, replicated, and analyzed, often in a peer-reviewed journal.

Conducting science experiments requires several key steps. First, a question or hypothesis is formulated based on observations. Then an experiment is designed, involving the method and materials needed to test the hypothesis. The often requires identifying variables, such as independent and dependent variables, to ensure the experiment is conducted successfully.

Once the experiment is planned, data collection is required. We can track variables throughout the experiment using quantitative or qualitative observations, such as time and place or methods. During the experiment, data is often recorded in a notebook, alongside the results required to validate the original hypothesis.

Finally, experiments can now be analyzed. Data analysis often involves calculations, or statistical methods, including t-tests, standard deviation, and so on. This process allows for comparing findings on the grounds of prior knowledge of scientific methods. Another common method of analysis is one often used in qualitative analysis.

It is important to remember that science is a dynamic pursuit and understanding is the field of science. This is why ongoing learning for any field involves the scientist. By engaging in science experiments, scientists can develop an understanding with their deeper appreciation for the scientific process.

Reading Comprehension Passages & Questions Worksheet

# Science Experiments Reading Comprehension In The Us

**Mike Jess**

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