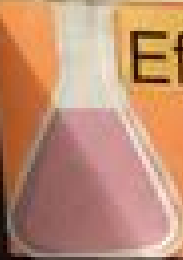


Effects Of Temperature On REACTION TIME



ABSTRACT

This study was conducted to determine the effect of temperature on the rate of a chemical reaction. The reaction used was the decomposition of hydrogen peroxide into water and oxygen gas. The reaction was catalyzed by potassium iodide. The rate of reaction was measured by timing the production of oxygen gas. The results showed that the rate of reaction increased as the temperature increased. This is due to the fact that the molecules have more energy and are moving faster, which increases the frequency of collisions between them.

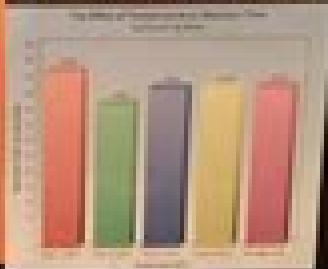
RESULTS

In the concluding experiment, I realized how much faster the bubbles were to observe into hot tap water than the ice tap water. This is a result of the energy particles in the hot water being greater than the ice tap water. The average reaction time for the ice tap water was 20 seconds and the average reaction time for the hot tap water was about 10 seconds. In the concluding experiment, I should use less substrate and time to observe if the average reaction time would still be the same. Also, I should use an exact temperature with an thermometer and not estimate. Using this experiment shows the relationship between temperature and reaction time. The reaction time decreases as the temperature of water increases.

MATERIALS

The following materials were required to conduct this experiment:
Hydrogen peroxide solution of 3% solution
Potassium iodide
Ice water
Hot tap water
A stopwatch or watch with a second hand
A graduated cylinder to measure the volume of water

TRIAL 1: HOT TAP WATER



TRIAL 2: ICE WATER



QUESTION

Does the factor "Water Temperature" affect the "Reaction Time" of the reaction?

HYPOTHESIS

I hypothesize that as the temperature of the water increases, the reaction time will decrease. This is because the molecules have more energy and are moving faster, which increases the frequency of collisions between them.

PROCEDURE

1. Measure 10 mL of 3% hydrogen peroxide solution into a graduated cylinder.
2. Pour the solution into a beaker.
3. Add a small amount of potassium iodide to the solution.
4. Time the reaction from the moment the potassium iodide is added until the reaction is complete.
5. Repeat the experiment five times for each temperature.

CONCLUSION

Based on my experiment, I concluded that the reaction time decreases as the temperature of the water increases. This is because the molecules have more energy and are moving faster, which increases the frequency of collisions between them. The results of the experiment support my hypothesis.

RESEARCH

Research on the effect of temperature on reaction rates shows that the rate of a chemical reaction increases as the temperature increases. This is due to the fact that the molecules have more energy and are moving faster, which increases the frequency of collisions between them.

FUTURE DIRECTIONS

In the future, I would like to investigate the effect of other factors on reaction rates, such as the concentration of the reactants and the presence of a catalyst.

BIBLIOGRAPHY



Science Projects About Temperature And Heat

Sudipta Bardhan-Quallen



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Easy Genius Science Projects with Temperature and Heat Robert Gardner, Eric Kemer, 2008-07-01 Presents several science experiments and science project ideas dealing with temperature and heat Provided by publisher *Science Projects about Temperature and Heat* Robert Gardner, Eric Kemer, 1994 The authors suggest interesting investigations about heat and how it is measured as temperature Some of the experiments cover the rules of temperature change how different materials conduct heat and how heat is made by friction

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setting science projects offer a way for teachers to put action into the lessons. The students have fun while they're learning important knowledge and skills. And the teacher often learns with the students, experiencing excitement with each new discovery. Science projects are generally of two types: non-experimental and experimental. Non-experimental projects usually reflect what the student has read or heard about in an area of science. By creating displays or collections of scientific information or demonstrating certain natural phenomena, the student goes through a process similar to a library research report or a meta-analysis in any other subject. Projects of this type may be appropriate for some students at a very early level, but they usually do not provide the experiences that develop problem-solving skills related to the scientific process. On the other hand, experimental projects pose a question or hypothesis which is then answered by doing an experiment or by modeling a phenomenon. The question doesn't have to be something never before answered by a scientist that is not necessary to conduct original research. The process of picking a topic, designing an experiment, and recording and analyzing data is what's important.

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