

- What are molecules? Give examples.
- What is a physical change and list examples of physical changes.
- What is a chemical change and give examples of chemical changes.

2.2 Main Body (Lesson presentation)

Educator starts lesson off with an exciting demonstration as mentioned in the introduction and explains the relevant concepts in terms of a chemical change. (20 min.)

- Matter is all around us and it undergoes changes all the time. These changes can be classified as **PHYSICAL CHANGES** OR **CHEMICAL CHANGES**.
- The **CONCEPTS** of **PHYSICAL CHANGE** and **CHEMICAL CHANGE** is shown in the table below. Educator engages learners in a discussion of the different aspects of physical and chemical change as mentioned in the table to re-enforce the concepts.

physical changes	chemical changes
common signs that a chemical change has occurred are: 1. Production of gas bubbles 2. Change in the way something melts 3. A release of energy such as a flash or a sound (like a firecracker) 4. A precipitate forms (two liquids mixed together form a solid and a liquid)	common signs that a physical change has occurred are: 1. change in the size 2. change in shape 3. change in colour, or 4. Change in state / phase of matter of a substance. 5. No new substance is produced.
Examples of physical changes: • A grape when stepped on (changes shape) - Blowing up a balloon (changes size and shape) • Liquid water turning to ice (changes state of matter) • Liquid water turning to steam (changes state of matter) • Mixing salt and sugar (changes the appearance, but you can still separate the mixture) • Mixing water and salt (changes the appearance, but you can still separate the mixture)	Examples of chemical changes: • Metal rusting (new substance formed) • Stomach digesting food (break down of food to new substances) • Plant carrying out photosynthesis (pulling water and carbon dioxide together to make sugar) • Mixing baking soda and vinegar (makes a neutral liquid and a gas)

- Educator discusses the results of the experiment with the learners.
- The liquid hydrogen peroxide decomposes (breaks up) to form oxygen gas and liquid water (the atomic model the using ball and stick as well as space filling diagrams to show the reactants and products in this reaction).
- The **MANGANESE DIOXIDE** is a catalyst and speeds up the reaction. A **CATALYST** is a chemical substance that changes the speed of a reaction without getting used up in the process. at the end of the reaction the catalyst can be recovered. Eg. **ENZYMES** in our body help to speed up the digestive process.

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Human Aspects of Information Security and Assurance Nathan Clarke, Steven Furnell, 2024-11-27 The two volume set IFIP AICT 721 722 constitutes the proceedings of the 18th IFIP WG 11 12 International Symposium on Human Aspects of Information Security and Assurance HAISA 2024 held in Skövde Sweden in July 9 11 2024 The 39 full papers presented were carefully reviewed and selected from 55 submissions The papers are organized in the following topical sections Part I Management and Risk Social Engineering Technical Attacks and Defenses Usable Security Part II Awareness and Education Privacy **Everyday Physical Science Mysteries** Richard Konicek-Moran, 2013 What can make a ball roll faster Does the temperature of wood affect the heat of a fire How can old fashioned tin can telephones teach today's students about sound and technology By presenting everyday mysteries like these this book will motivate your students to carry out hands on science investigations and actually care about the results The 21 open ended mysteries focus exclusively on physical science including motion friction temperature forces and sound The stories come with lists of science concepts to explore grade appropriate strategies for using them and explanations of how the lessons align with national standards They also relieve you of the tiring work of designing inquiry lessons from scratch **Resources in Education**, 1994-10 **Annual Report** South Africa. Department of Basic Education, 2016 **Science Education in Countries Along the Belt & Road** Ronghuai Huang, Bing Xin, Ahmed Tlili, Feng Yang, Xiangling Zhang, Lixin Zhu, Mohamed Jemni, 2022-01-18 This book aims to highlight science education in countries along the Belt and Road It consists of 30 chapters divided into three main parts namely Arab and African countries Asian countries and European countries We invited science education experts from 29 Belt and Road countries to introduce the current status of science education in their countries and the new requirements with the rapid

evolution of Information Technology The major contributions of this book include 1 Provide the current status of science education in countries along the Belt and Road as well as the requirement for developing and improving science education in these countries 2 Discuss new insights of science education in future years 3 Inspire stakeholders to take effective initiatives to develop science education in countries along the Belt and Road

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