

- 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
<p>common signs that a chemical change has occurred are:</p> <ol style="list-style-type: none"> 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) 	<p>common signs that a physical change has occurred are:</p> <ol style="list-style-type: none"> 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.
<p>Examples of physical changes</p> <ul style="list-style-type: none"> • 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) 	<p>Examples of chemical changes</p> <ul style="list-style-type: none"> • 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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Minjie Lin



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