| **Physical and Chemical Changes** |
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| **Complete the activities in this order.**  | **As you do the activities, answer these questions.** Type your answers in a different color.  |
| **Watch and Listen** |  |
| <https://www.youtube.com/watch?v=x49BtB5dOwg> | 1. What is a physical change?

A physical change is something that changes the physical properties of a substance.1. What is an example of a physical change? An example of a physical change is cutting a piece of cloth.
2. How can water be an example of a physical change?Water can be an example because it can be undone.
3. What are three indicators of a chemical change? 1.
4. Can a chemical change be undone?

No, a chemical change can not be undone.1. What is a chemical change?

A reaction that rearranges the particles of two or more substances to create at least one new substance. 1. What is one example of a chemical change? An example is burning wood.
2. What are 4 facts about chemical changes? 1. always forms a new substance, 2. may absorb or release heat, 3. may change color, produce odor,create sound, release gas, or produce light, 4. usually cannot be undone
3. What are 4 facts about physical changes? 1. Do not form a new substance 2. May change shape or size 3. May change state of matter 4. Can often be undone
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| **Read** |  |
| Click the image to access the linkI<http://www.chem4kids.com/files/matter_chemphys.html> | 1. What are physical changes usually about?

Physical change is usually about states of matter.1. What interacts to cause chemical changes? When two or more molecules interact.
2. Is crushing a can a physical or chemical change? Why? Crushing a can is a physical change because it changed its shape and the energy in it did not change.
3. Is burning a sugar cube a physical or chemical change? Why? Burning a sugar cube is a physical change because the substance is still sugar.
4. How is iron rusting a chemical change?

Iron rust is a chemical change because the molecules change their structure. |
| **Watch** |  |
|  | 1. What are five indicators of a chemical change? 1. Fizzing, 2. Odor, 3. Temperature, 4. Color, 5. Precipitate
2. How does fizzing (producing a gas) occur? It occurs when gas is released and when chemicals are mixed.
3. What are two examples of a chemical change producing an odor?

1: Cake baking , and clothes 1. What is an example of a chemical reaction causing a color change?

An example is cabbage juice.1. What is an example of a chemical change when the temperature increases? An example is fire.
2. What is an example of a chemical change when the temperature decreases? An example is
3. What is a precipitate?

A precipitate is an insoluble solid that emerges from a liquid solution. |
| **Identify As A Physical or Chemical Change** |
|  **QUESTION ANSWER and WHY** |
| Glass Breaking |  |
| Snowman Melting  |  |
| Cake Baking |  |
| Volcano Exploding |  |
| Food Digesting |  |
| A haircut |  |
| **Finish Early?**  |
| Use the link to the right to review physical and chemical changes.  | <https://quizlet.com/433224942/match> |