| **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?

Something that changes the physical properties of a substance.1. What is an example of a physical change?

 An example of physical change is when cloth is being cut, the shape changes, but the substance stays the same.1. How can water be an example of a physical change?

It can be a physical change because we end up with the same substance we started with.1. What are three indicators of a chemical change?

The three indicators for chemical change are, always forms a new substance, may absorb or release heat, may change color, produce odor, create sound, release gas, or produce light.1. Can a chemical change be undone?

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

A chemical change is 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?

When we burn wood the wood is transformed into a new substance, ash. It also changes color, produces gas, and produces an odor.1. What are 4 facts about chemical changes?

Metal rusting, Fireworks exploding, Fruit ripening, and Digesting food.1. What are 4 facts about physical changes?

A physical change is when it does not form a new substance, it may change its shape or size, may change state of matter, and can often be undone.  |
| **Read** |  |
| Click the image to access the linkI<http://www.chem4kids.com/files/matter_chemphys.html> | 1. What are physical changes usually about?

Physical changes are usually about physical states of matter.1. What interacts to cause chemical changes?

Chemical changes happen on a molecular level when you have two or more molecules that interact.1. Is crushing a can a physical or chemical change? Why?

It is a physical change because it only changed the shape of the can, it did not form a new substance.1. Is burning a sugar cube a physical or chemical change? Why?

Melting a sugar cube is a physical change because the substance is still sugar. **Burning** a cube is a chemical change 1. How is iron rusting a chemical change?

Iron rusting is a chemical change because it rusts when it is exposed to oxygen gas in the air  |
| **Watch** |  |
|  | 1. What are five indicators of a chemical change?

Fizzing or bubbles, a change in odor, change in temperature, permanent change in color, and a precipitate being created.1. How does fizzing (producing a gas) occur?

It occurs when gas is released.1. What are two examples of a chemical change producing an odor?

The smell of a cake baking, and wood burning1. What is an example of a chemical reaction causing a color change?

An example of a chemical change causing color is cabbage juice.1. What is an example of a chemical change when the temperature increases?

An example is when 1. What is an example of a chemical change when the temperature decreases?
2. What is a precipitate?
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| **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> |