| **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 does not form a new substance even if it looks different1. What is an example of a physical change?

A watermelon getting smashed; even tho it looks different it's still watermelon1. How can water be an example of a physical change? It can go from a body of water to rain (vice versa) but it's still water
2. What are three indicators of a chemical change? Always forms a new substance, usually can’t be undone, may change color, produs oder, create sound, release gas, or produce light
3. Can a chemical change be undone?

 Not usually1. What is a chemical change?

 A chemical change is where it forms a new substance1. What is one example of a chemical change?

 Baking cookies1. What are 4 facts about chemical changes?
2. Always forms new substance, may absorb or release heat, may create/produce color, odor, sound, gas, or light
3. What are 4 facts about physical changes?

Does not form a new substance, may change shape or size, may change state of matter, 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 states of matter1. What interacts to cause chemical changes?

Molecules 1. Is crushing a can a physical or chemical change? Why?

Physical, because the energy inside the can did not change, only the physical shape.1. Is burning a sugar cube a physical or chemical change? Why?

 Chemical, because “The oxygen in the air reacts with the sugar and the chemical bonds are broken” states the text1. How is iron rusting a chemical change?

The molecules change their structure while the iron is oxidized. |
| **Watch** |  |
|  | 1. What are five indicators of a chemical change?

Fizzing, odor, temperature, color, precipitate 1. How does fizzing (producing a gas) occur? When gas is released
2. What are two examples of a chemical change producing an odor?

 Cake and feces1. What is an example of a chemical reaction causing a color change?

Cabbage juice mixed with other chemicals 1. What is an example of a chemical change when the temperature increases? fire
2. What is an example of a chemical change when the temperature decreases? snow
3. What is 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 | **physical** |
| Snowman Melting  | **physical** |
| Cake Baking | **chemical** |
| Volcano Exploding | **Chemical**  |
| Food Digesting | **chemical** |
| A haircut | **physical** |
| **Finish Early?**  |
| Use the link to the right to review physical and chemical changes.  | <https://quizlet.com/433224942/match> |