| **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? Cutting a piece of cloth.
2. How can water be an example of a physical change?

Ice melting into water, water evaporating into steam.1. What are three indicators of a chemical change?

Absorbs heat, color change, production of odor.1. Can a chemical change be undone?

A chemical change cannot 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? Baking cookies.
2. What are 4 facts about chemical changes?

Always form a new substance, may absorb or release heat, may change color, produce odor, create sound, release gas and produce light.1. What are 4 facts about physical changes? Do not form a new substance, may change shape or size, may change state of matter, and 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 states of matter.
2. What interacts to cause chemical changes? Chemical changes happen on a molecular level when you have two or more molecules that interact.
3. Is crushing a can a physical or chemical change? Why? It is a physical change because the molecules are still there.
4. Is burning a sugar cube a physical or chemical change? Why? It is a physical change because the substance is still sugar.
5. How is iron rusting a chemical change? When it is exposed to oxygen gas in the air.
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| **Watch** |  |
|  | 1. What are five indicators of a chemical change? Fizzing, odor, temperature, color, and precipitate.
2. How does fizzing (producing a gas) occur?

When gas is released1. What are two examples of a chemical change producing an odor? Cake baking and feces.
2. What is an example of a chemical reaction causing a color change? Cabbage juice with different chemicals.
3. What is an example of a chemical change when the temperature increases? Fire burning.
4. What is an example of a chemical change when the temperature decreases? Ice.
5. What is a precipitate? A precipitate is an insoluble that emerges from a liquid solution.
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| **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> |