| **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?**   **Physical change do not form a new substance.**   1. **What is an example of a physical change?**   **Chemical change always forms a new substance**   1. **How can water be an example of a physical change?**   **One example of a physical change is the evaporation of water. When water evaporates, it changes from a liquid state to a gas state. But, it is still water. It doesn't experience changes in its basic identity.**   1. **What are three indicators of a chemical change?**   **Some signs of a chemical change are a change in color and the formation of bubbles. The five conditions of chemical change: color change, formation of a precipitate, formation of a gas, odor change, temperature change.**   1. **Can a chemical change be undone?**   **hemical changes generally result in newer substances and hence cannot be undone. Consider, for example, the burning of logs. We cannot change the ashes from these burnt logs back into the wood. Some of the chemical changes can be reversed, but only when there are other chemical changes.**   1. **What is a chemical change?**   **Chemical changes occur when a substance combines with another to form a new substance, called chemical synthesis or, alternatively, chemical decomposition into two or more different substances.**   1. **What is one example of a chemical change?**   **Rotting, burning, cooking, and rusting**   1. **What are 4 facts about chemical changes?**   **When ice melts it undergoes a physical change from solid to liquid. ...**  **Mixtures and solutions are different from chemical reactions as the molecules of the substances stay the same.**  **Most cars get their power from an engine that uses a combustion ch**   1. What are 4 facts about physical changes?   **melting, freezing, boiling/evaporating, condensing, deposition and sublimation**. |
| **Read** |  |
| Click the image to access the link    I  <http://www.chem4kids.com/files/matter_chemphys.html> | 1. What are physical changes usually about? 2. What interacts to cause chemical changes? 3. Is crushing a can a physical or chemical change? Why? 4. Is burning a sugar cube a physical or chemical change? Why? 5. How is iron rusting a chemical change? |
| **Watch** |  |
|  | 1. What are five indicators of a chemical change? 2. How does fizzing (producing a gas) occur? 3. What are two examples of a chemical change producing an odor? 4. What is an example of a chemical reaction causing a color change? 5. What is an example of a chemical change when the temperature increases? 6. What is an example of a chemical change when the temperature decreases? 7. What is a precipitate? |
| **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> |