**Physical V. Chemical Change Virtual Lab**

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| **WEBSITE:**[**http://www.glencoe.com/sites/common\_assets/science/virtual\_labs/E03/E03.html**](http://www.glencoe.com/sites/common_assets/science/virtual_labs/E03/E03.html) 1.       Define Physical Change.  2.       Define Chemical Change.  **Predict**: How are physical and chemical changes distinguished? (Answer with a prediction of your own.Use complete sentences) **Procedure**:1. Select one of the four events and view the video. You can stop the video at any point and watch it as many times as you need to.
2. Click the Play/Pause, rewind & fast forward button when needed.
3. Use your observations to check all the items on the Observations Checklist (on the screen).
4. When all items are checked, decide whether the changes you observed represent a physical or chemicalchange of matter.
5. Click the Physical Change or Chemical Change button.
6. Record your observations in the Table.
7. Select another event to observe. Watch the remaining 3 events & analyze the data.
8. Complete the Analysis questions.

 **Data:**

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| --- | --- | --- | --- | --- |
|   | **EVENT 1** | **EVENT 2** | **EVENT 3** | **EVENT 4** |
| **Shape Change** |   |   |   |   |
| **Color Change** |   |   |   |   |
| **Bubble Formed** |   |   |   |   |
| **Odor Production** |   |   |   |   |
| **Heat Given Off** |   |   |   |   |
| **Size Change** |   |   |   |   |
| **Change of State** |   |   |   |   |
| **New Substance Formed** |   |   |   |   |
| **Sound Production** |   |   |   |   |
| **Light Production** |   |   |   |   |

**Analysis**: 1.       Is evaporation of water a physical or chemical change? Explain your answer. 2.       List three clues that indicate that a chemical change has taken place. 3.       Give three examples of chemical changes that you encounter every day. 4.       Explain how a burning candle can demonstrate both a physical and chemical change.  **Conclusion** (Give 4 sentences about what you learned about physical and chemical changes) |