

Science Notebook Layout **DON'T COPY UNDERLINED TEXT**

Mrs. Aguirre's Webpage: <http://www.quia.com/profiles/caguirre>

Chemical or Physical 3/16

| | Process | Physical/Chemical? And why... |
|----|----------------|-------------------------------|
| 1 | Rusting | |
| 2 | Evaporation | |
| 3 | Soggy cereal | |
| 4 | Melting | |
| 5 | Combustion | |
| 6 | Freezing | |
| 7 | Folding | |
| 8 | Frying | |
| 9 | Painting | |
| 10 | Photosynthesis | |
| 11 | Condensation | |
| 12 | None | None |
| 13 | Dissolving | |
| 14 | Bleaching | |
| 15 | Shattering | |
| 16 | Molding | |

3-15-2012

4 "Deadly" Warning Signs of a Chemical Reaction

A. Bubbles (new gas is made)

B. Solid appears/cloudy

(Precipitate)

C. Temperature Change

D. Color Change

KEY: new substances formed with different properties

| What was done | What happened? | Evidence of new substances formed | Chemical or Physical change? |
|---|---|--|---|
| Making a mixture: Orange juice from concentrate | Mixed frozen OJ with water, giving orange juice | None | Physical: just mixing substances already there |
| Separating a mixture: filtering OJ | Put OJ through a filter, pulp is left in the filter. A clear orange solution passes through the filter. | None | Physical: just separating substance that were mixed together. |
| Mix a clear colorless solution with a clear yellow solution | Turns cloudy, a red solid is formed and sinks to the bottom of the test tube (a Precipitate) | A new solid is formed. It is a different color than the original solutions. | |
| Fried ice | Ice melted to water, water boiled | No, bubbles were just from boiling, temperature got hot, but is was from being on stove. | |
| Blow into pH indicator | Blue solution turns green or yellow | color change pH change | |
| Adding poly A to poly B | a dark liquid is mixed with a yellow liquid. After a few minutes is foams up and turns solid. | Gets hot due the chemical change. Properties change: colored liquids to white solid. Gas is produced, causing the expansion. | |

How do you know?

Chemical or Physical 3/16

Physical Change example:

From the demonstrations done on page 76, pick one chemical and one physical change.

For each:

Explain what happened

Explain how you know if it's a chemical or physical change.

Chemical change example

For chemical change: include any of the "signs of chemical changes" that you saw.