

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.

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.	