

Making Changes of Matter

Learn about two different kinds of changes of matter and learn to recognize them.

NOTE: An adult helper is needed for these investigations.

Materials and Tools:

- | | | |
|----------------------|--------------------------|------------------|
| ✓ matches | ✓ water | ✓ cookie |
| ✓ candle | ✓ mixing bowl | ✓ slice of bread |
| ✓ toaster | ✓ vinegar | ✓ egg beater |
| ✓ salt | ✓ table or
countertop | ✓ ice cube |
| ✓ table knife | ✓ baking soda | ✓ alcohol |
| ✓ 2 egg whites | ✓ spoons | ✓ aluminum foil |
| ✓ lemonade
powder | ✓ 6 small dishes | ✓ antacid tablet |
| | | ✓ data sheet |



CHEMICAL
CHANGE

A CHEMICAL CHANGE
is a change that results in a
new substance



PHYSICAL
CHANGE

A PHYSICAL CHANGE
is a change in size or
appearance only

Directions:



Ready to begin!

- Using materials from the list, perform the tasks on the data sheet.
- For each one, examine the results and draw your own conclusions to decide whether the change was physical or chemical.



Does it change size or shape?



Has the appearance changed?
Does it look different?



Has the substance itself (the actual stuff) changed into something different?



Activity Data Sheet

Making Changes

Put an "X" in each box on the right that describes the change. Then decide what kind of change happened. Write in "P" for physical changes and "C" for chemical changes.

Physical or Chemical? ▼	CHANGES ►	Size or Shape? ▼	Appearance ▼	Substance ▼
	Mix Vinegar + Baking Soda			
	Burn a match			
	Toast bread until it's burned			
	Mix lemonade + water			
	Melt an ice cube			
	Burn a wax candle			
	Set a few drops of water in a dish overnight			
	Set a few drops of alcohol in a dish overnight			
	Crumple a square of foil into a ball			
	Beat egg whites 7 minutes			
	Slice a cookie in 4 pieces			
	Drop antacid tablet in water			