

Phases and Changes Worksheet

Draw particulate diagrams to model what is happening on the atomic level during a physical change versus a chemical change. Use things such as labels, keys/legend, color, size, showing passage of time, etc to make your model detailed and understandable. If you would like more space you can always make a flippy! Big or small!

Video on particulate diagrams if you don't remember from previous science classes: <https://youtu.be/tTyD2n1vxJE>

Physical Change

Chemical Change

Determine whether the following things are physical properties (PP), physical changes (PC), chemical properties (CP), or chemical changes (CC). Refer to your chart of information for help! When done, check answers!

Hint: Changes are things that are happening Properties are things that can happen

Example: Iron rusting = chemical change. Iron rusts = chemical property.

#	Physical/Chemical Property/Change	Answer
1	Burning a log	
2	Bending a wire of Aluminum	
3	TNT reacts very, very fast when ignited	
4	The table top is black	
5	Boiling water	
6	Melting copper	
7	A decaying tree trunk	
8	Vinegar smells sour	
9	Iron rusting	
10	Acid reacts with water and gives off heat	
11	Water evaporating from sugar water	
12	Glucose and yeast ferment to make alcohol.	
13	Ice freezes at 0°Celsius and boils at 100° Celsius	

#	Physical/Chemical Property/Change	Answer
14	Digesting your lunch	
15	Grinding sand	
16	Freezing water to make ice	
17	Iron metal rusts when exposed to oxygen	
18	Zinc reacts with HCl and produces a gas	
19	Wood and alcohol are flammable	
20	Milk sours	
21	Water is absorbed by a paper towel	
22	Salt dissolves in water	
23	The density of an object is 3.2 g/mL	
24	A pellet of sodium hydroxide is sliced in two	
25	The metal object is hard, while the pillow is soft	
26	Li is put in water, catches fire and makes LiOH	