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>

*Chemical Change*

*Physical 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.*

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| **#** | **Physical/Chemical Property/Change** | **Answer** |  | **#** | **Physical/Chemical Property/Change** | **Answer** |
| **1** | Burning a log |  |  | **14** | Digesting your lunch |  |
| **2** | Bending a wire of Aluminum |  |  | **15** | Grinding sand |  |
| **3** | TNT reacts very, very fast when ignited |  |  | **16** | Freezing water to make ice |  |
| **4** | The table top is black |  |  | **17** | Iron metal rusts when exposed to oxygen |  |
| **5** | Boiling water |  |  | **18** | Zinc reacts with HCl and produces a gas |  |
| **6** | Melting copper |  |  | **19** | Wood and alcohol are flammable |  |
| **7** | A decaying tree trunk |  |  | **20** | Milk sours |  |
| **8** | Vinegar smells sour |  |  | **21** | Water is absorbed by a paper towel |  |
| **9** | Iron rusting |  |  | **22** | Salt dissolves in water |  |
| **10** | Acid reacts with water and gives off heat |  |  | **23** | The density of an object is 3.2 g/mL |  |
| **11** | Water evaporating from sugar water |  |  | **24** | A pellet of sodium hydroxide is sliced in two |  |
| **12** | Glucose and yeast ferment to make alcohol. |  |  | **25** | The metal object is hard, while the pillow is soft |  |
| **13** | Ice freezes at 0°Celsius and boils at 100° Celsius |  |  | **26** | Li is put in water, catches fire and makes LiOH |  |