

9. When a metal bonds with a nonmetal a(n) _____ bond forms.
10. When two non-metals bond with each other they form a _____ bond.
11. The atomic number of an element that has 8 protons and 8 neutrons is _____ and the name of that element is _____.
12. For most substances, as the temperature increases the volume will _____ and as the _____ decreases the volume will _____. This increase or decrease in volume is called _____.
13. _____ is anything that has mass and takes up space (has volume).
14. Identify as: 'PP' Physical property, 'PC' physical change, 'CP' chemical property, or 'CC' chemical change.

NaHCO ₃	Wood burns
boiling	apple slices turn brown in air
vinegar will bubble when mixed with baking soda	water at room temperature
cooking a cake	water freezing
iron rusting	digesting your lunch
texture	color

15. Phases of matter

Phase of matter	Definite shape (yes/no)	Definite volume (yes/no)
Solid		
Liquid		
Gas		

16. _____ is described as being a free floating gas with ionized electrons or a high energy state of matter made of charged particles.