

## IPC Test 2 Review

- \_\_\_\_\_ **property** – a characteristic of a substance that can be observed or measured without changing the composition of the substance
  - \_\_\_\_\_ – the amount of matter per unit volume.  $D = M/V$
  - \_\_\_\_\_ **point** – the temperature at which a solid becomes a liquid
  - \_\_\_\_\_ **point** – the temperature at which a liquid becomes a gas
  - \_\_\_\_\_ - the quantity that describes a fluid's resistance to flow. As temperature increases viscosity decreases.
  - \_\_\_\_\_ – the force with which a more dense fluid pushes a less dense fluid
- \_\_\_\_\_ **Property** – The way a substance reacts with others to form new substances with different properties.
  - \_\_\_\_\_ – the ability of a substance to combine chemically with another substance.
    - Flammability – How easily something catches on fire.
    - Combustibility – How easily something explodes
    - Corrosiveness - how easily something erodes
- **Atomic Structure** – atoms are made of \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
  - \_\_\_\_\_ – the center of the atom. Protons and neutrons are in the nucleus.
  - \_\_\_\_\_ – Positively charged subatomic particles that are in the nucleus.
  - \_\_\_\_\_ – particles that are in the nucleus. They have no charge.
  - \_\_\_\_\_ – negatively charged particles that orbit around the nucleus.
- **Atomic Number** – the small number on the periodic table. It tells you the number of \_\_\_\_\_ in the atom.
- **Atomic Mass** – the large number on the periodic table. It tells you the number of \_\_\_\_\_ and \_\_\_\_\_ in the atom.
- **Finding the Number of Neutrons** – (atomic mass – atomic number)
- **Finding the number of Electrons** - number of electrons equals the number of protons.
- \_\_\_\_\_ – atoms with different number of neutrons.
  - Ex. Carbon-12 has 6 neutrons (atomic mass (12) – atomic number (6) = 6 neutrons)
  - Ex. Carbon-14 has 8 neutrons (atomic mass (14) – atomic number (6) = 8 neutrons)
- \_\_\_\_\_ - the space in which electrons are likely to be found.