

37. Answer "True" or "False" if the statement accurately describes a solid.

- a. ____ The substance should not have a definite shape that contains particles moving at such high speeds that the matter is neither positively or negatively charged.
- b. ____ The substance should be a definite shape that has particles closely packed together and are constantly vibrating but do not slip past one another.
- c. ____ The substance should take the shape of the container it is in with particles that are not in contact with one another that move randomly, bumping into one another.
- d. ____ The substance should not have a definite shape that has particles in contact with one another that can slide over one another.

38. Answer "True" or "False" if you could test each property if you had a flame.

- a. ____ Reactivity with an acid
- b. ____ Combustibility or burning
- c. ____ Solubility
- d. ____ Reactivity with a base