

WKS
Properties of Liquids

Name _____
Period _____ Date _____

- 1) How does the density of liquids compare to that of gases?
- 2) Describe the motion of particles in a liquid.
- 3) Why do liquids expand when heated?
- 4) What is viscosity?
- 5) Explain how intermolecular forces affect the viscosity of a liquid.
- 6) How does a change in temperature affect viscosity? Why?
- 7) What is surface tension? What is a cohesive force?
- 8) What effect does soap have on the surface tension of water? How?
- 9) What is an adhesive force?
- 10) What are the relative strengths of adhesive and cohesive forces in water drops that bead up on a clean (“hydrophobic”) surface? Is the water attracted to the clean surface? What happens on a dirty (“hydrophilic”) surface?
- 11) Describe the formation of the meniscus with water in a glass container. What are the relative strengths of adhesive and cohesive forces? Contrast the meniscus in water with that in Hg. Why does Hg form a convex (upside-down) meniscus?