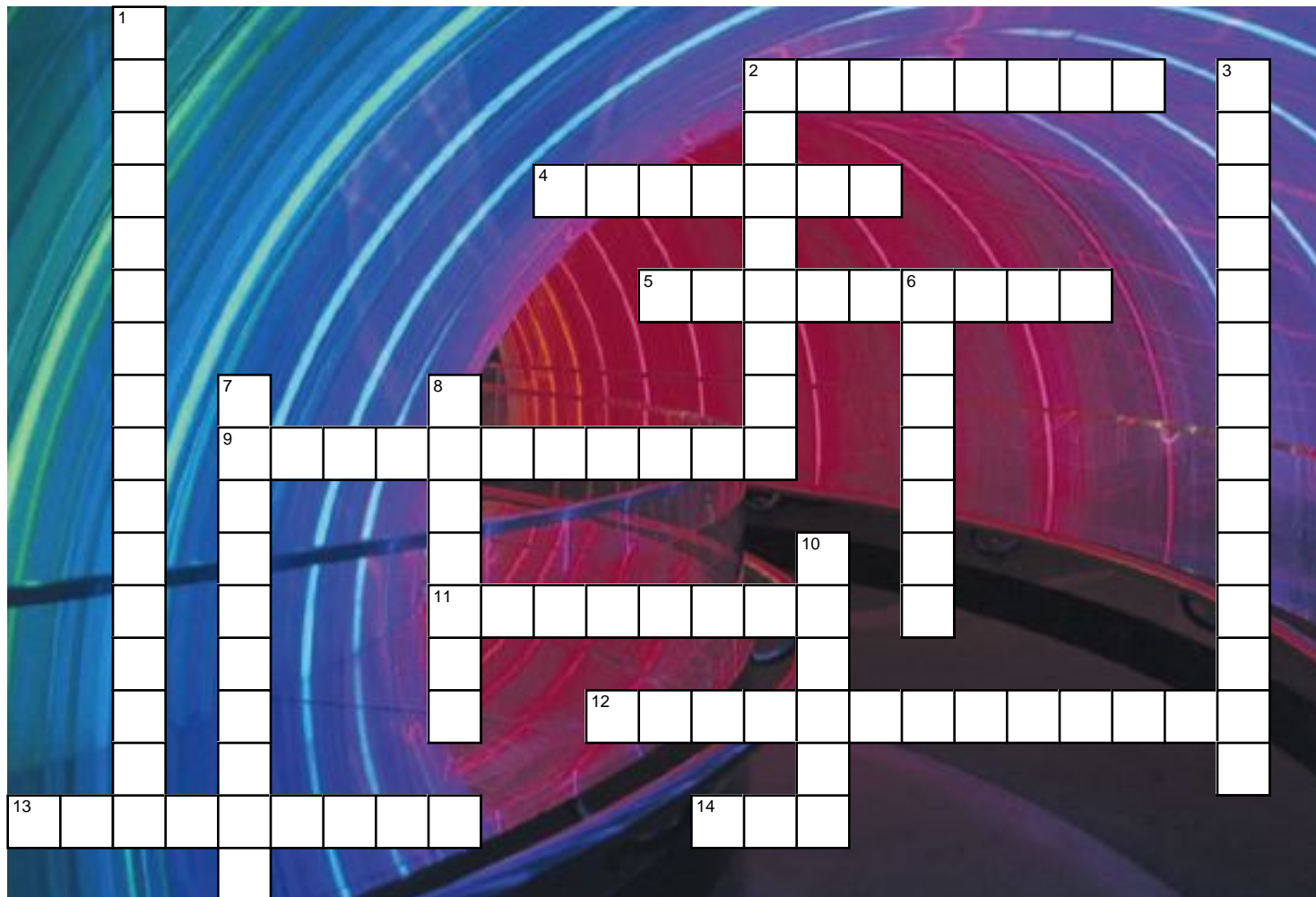


8.1 Viscosity and the Effects of Temperature



Across

2. _____ is a force that works to slow down motion as a result of surfaces rubbing against each other.
4. Cold maple syrup poured on hot pancakes becomes less _____ as it heats up.
5. When energy or heat is added to a liquid the _____ move faster and spread farther apart.
9. As the _____ of a liquid decreases the viscosity increases.
11. A fluid with a high viscosity has a large amount of _____ friction.
12. You can determine the flow rates of liquids by pouring them down an _____.
13. _____ is the resistance of a fluid to flow.
14. As the temperature of a _____ increases the viscosity increases.

Down

1. Motor oil labels may contain _____ such as 5W-30 or 10W-40.
2. The higher the _____, the lower the viscosity.
3. The particles in a solid and a liquid are packed _____ than the particles in a gas.
6. When energy or heat is added to a gas the particles move faster and _____ more often, resulting in greater resistance or friction.
7. Different substances have different viscosities because they are made of different particles with different forces of _____ between them.
8. Liquids with high viscosity have a high _____.
10. _____ with a low viscosity have a low density because their particles are farther apart.