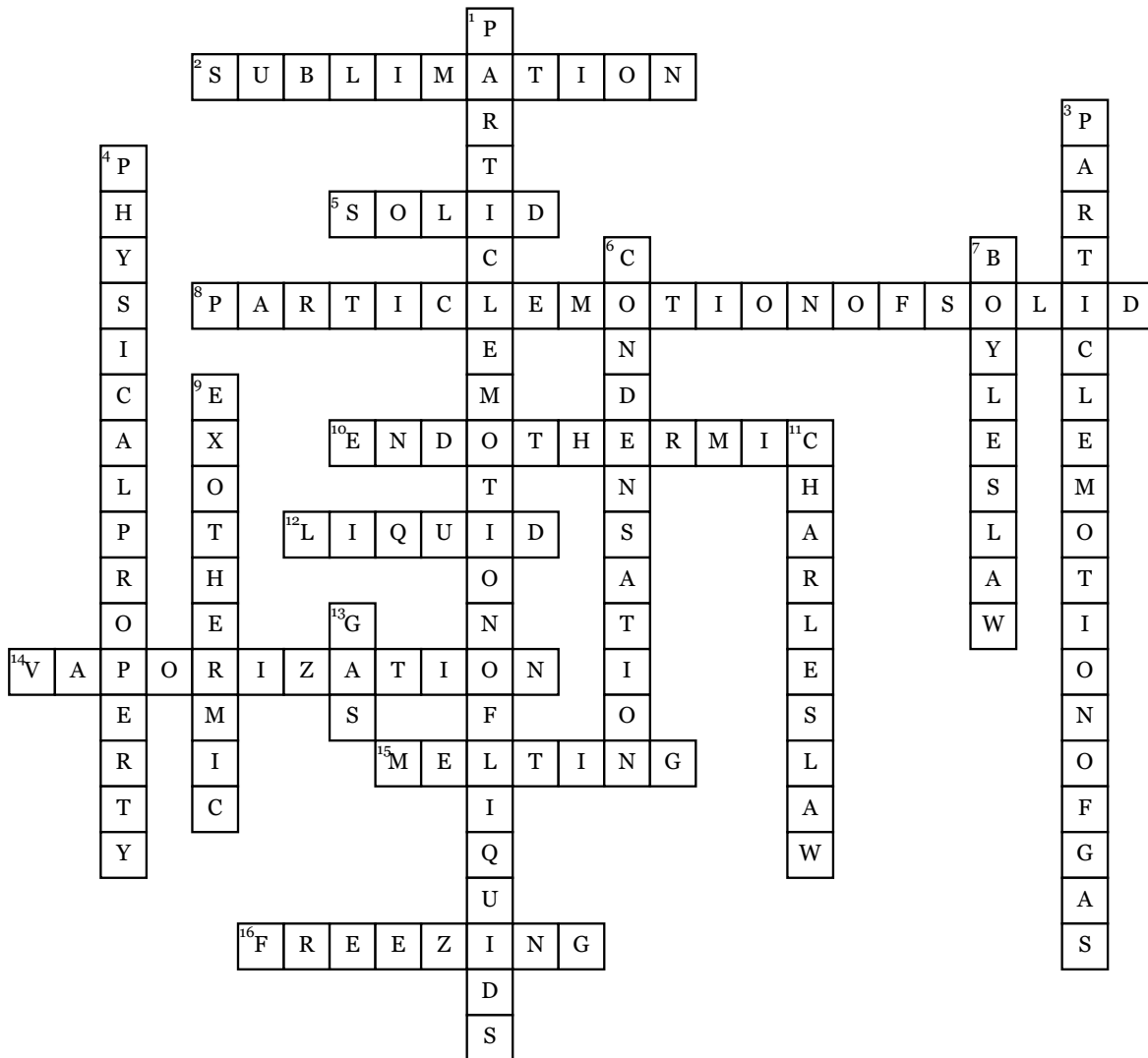


# Chapter 3 Phases of Matter



## Across

**2.** Phase change from a solid to a gas

**5.** Matter that has a definite shape and volume

**8.** Fixed in place, packed tightly

**10.** Heat is absorbed

**12.** Matter that has no definite shape but a definite volume

**14.** Phase change from a liquid to a gas

**15.** Phase change from solid to a liquid

**16.** Phase change from a liquid to a solid

## Down

**1.** Constant motion, closer together, less kinetic energy

**3.** Constant, random motion

**4.** A property that can be observed without changing the identity of the substance.

**6.** Phase change from a gas to a liquid

**7.** The volume of a fixed mass of gas varies inversely with the pressure at constant temperature

**9.** Heat is released

**11.** The volume of a fixed mass of gas at constant pressure varies directly with the Kelvin temperature scale

**13.** Matter that has no definite shape or volume