

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Thermal Energy

## Across

**1.** An increase in the size of a substance in response to an increase in the response to an increase in the temperature of the substance

**3.** The transfer of thermal energy by the circulation or movement of a liquid or gas

**7.** The kinetic energy of a substance's atoms

**8.** The transfer of energy as electromagnetic waves

**9.** A material through which energy can be transferred as heat

**10.** The energy transferred between objects that are at different temperatures

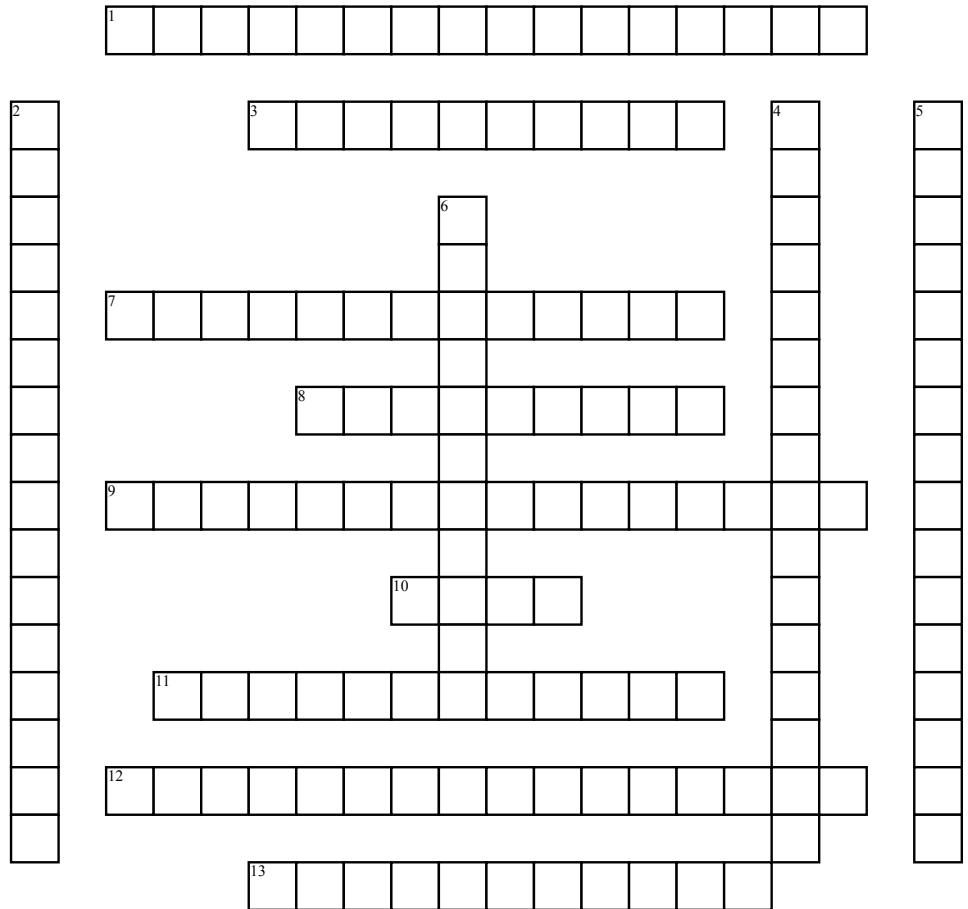
**11.** The temperature of which molecular molecular energy is at a minimum, 0K on the Kelvin Scale

**12.** A material through which energy can be transferred as heat

**13.** A measure of hot (or cold) something is; specifically, energy of the particles in an object

## Down

**2.** A temperature increase in a body of water that is caused by human activity and that has a harmful effect on water quality and on the ability of that body of water to support life



**4.** The transfer of energy as heat through a material

**5.** A material that reduces or prevents the transfer of heat

**6.** The quantity of heat required to raise a unit mass of homogeneous material 1K or 1C in a specified way given constant pressure and volume

