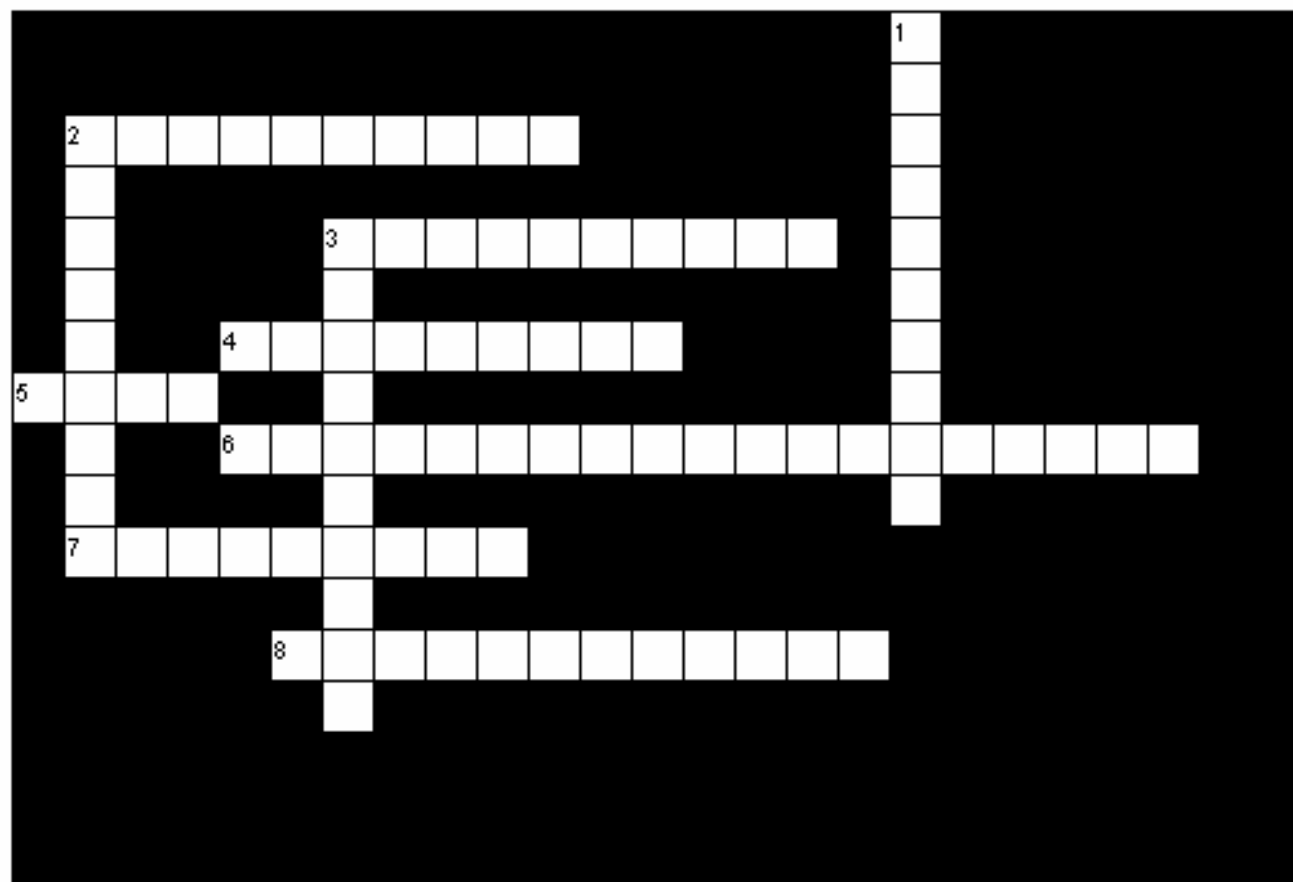


## VOCABULARY SHEET FOR STUDENT:

- **Conduction:** Heat flow due to the contact of two objects
- **Convection:** Heat flow due to actual fluid movement such as air or water
- **Radiation:** Energy transferred through the movement of electromagnetic waves; heat transfer not requiring a medium such as air
- **Thermal Conductivity:** The property of a material that determines how well it conducts heat
- **Insulator/insulation:** A material that does not conduct heat very well and has a low thermal conductivity
- **Emissivity:** Property of the surface of an object that determines how much electromagnetic energy is reflected and how much is absorbed in the form of heat. **Emissivity** is very dependent on color.
- **Insolation or Solar Radiation** – The amount of energy received on the Earth's Surface per unit area ( $W/m^2$ )
- **Watt (W)** – the metric unit for power
- **Renewable Resource:** a resource that is inexhaustible or replaceable by new growth; limitless supply
- **Nonrenewable Resource:** a resource that is not replaceable after it has been used



### Across

2. Amount of energy recieved on Earth's surface per unit area
3. Heat flow describing why the handle of a pot becomes warm when the pot is on the stove
4. The sun is this type of resource
5. Metric unit used to describe the amount of power in a system
6. The property that describes why metals conduct heat better than plastics
7. The term describing the way energy flows from the Sun to the Earth
8. Coal is this type of resource

### Down

1. Property that describes the fact that aluminum foil reflects the majority of heat and does not absorb the energy as well as a black surface
2. A material that keeps heat from escaping
3. Heat flow describing why soup can be cooled by blowing on it