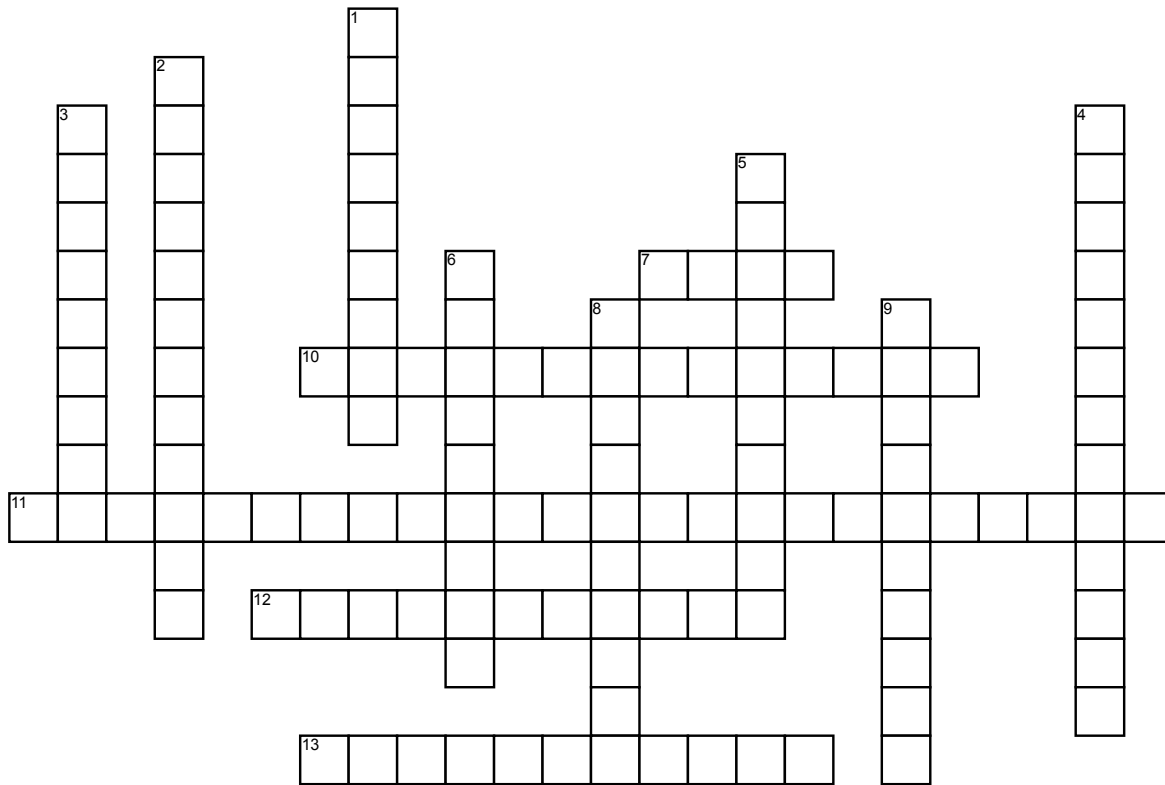


Physical Science



Across

7. Energy transferred between objects that are at different temperatures

10. any of various devices for the absorption of solar radiation for the heating of water or buildings or the production of electricity.

11. an engine that generates motive power by the burning of gasoline, oil, or other fuel with air inside the engine, the hot gases produced being used to drive a piston or do other work as they expand.

12. the degree or intensity of heat present in a substance or object, especially as expressed according to a comparative scale and shown by a thermometer or perceived by touch.

13. Energy given off by the sun

Down

1. a thing or substance used for insulation, in particular.

2. the heat required to raise the temperature of the unit mass of a given substance by a given amount (usually one degree).

3. the emission of energy as electromagnetic waves or as moving subatomic particles

4. is the internal energy of an object due to the kinetic energy of its atoms and/or molecules.

5. a device for producing motive power from heat, such as a gasoline engine or steam engine.

6. a device that absorbs thermal energy and moves it outside the object; refrigerator, air conditioner, heat pump

8. Transfer of energy as heat through a material

9. Movement of matter due to differences in density that are caused by temperature changes