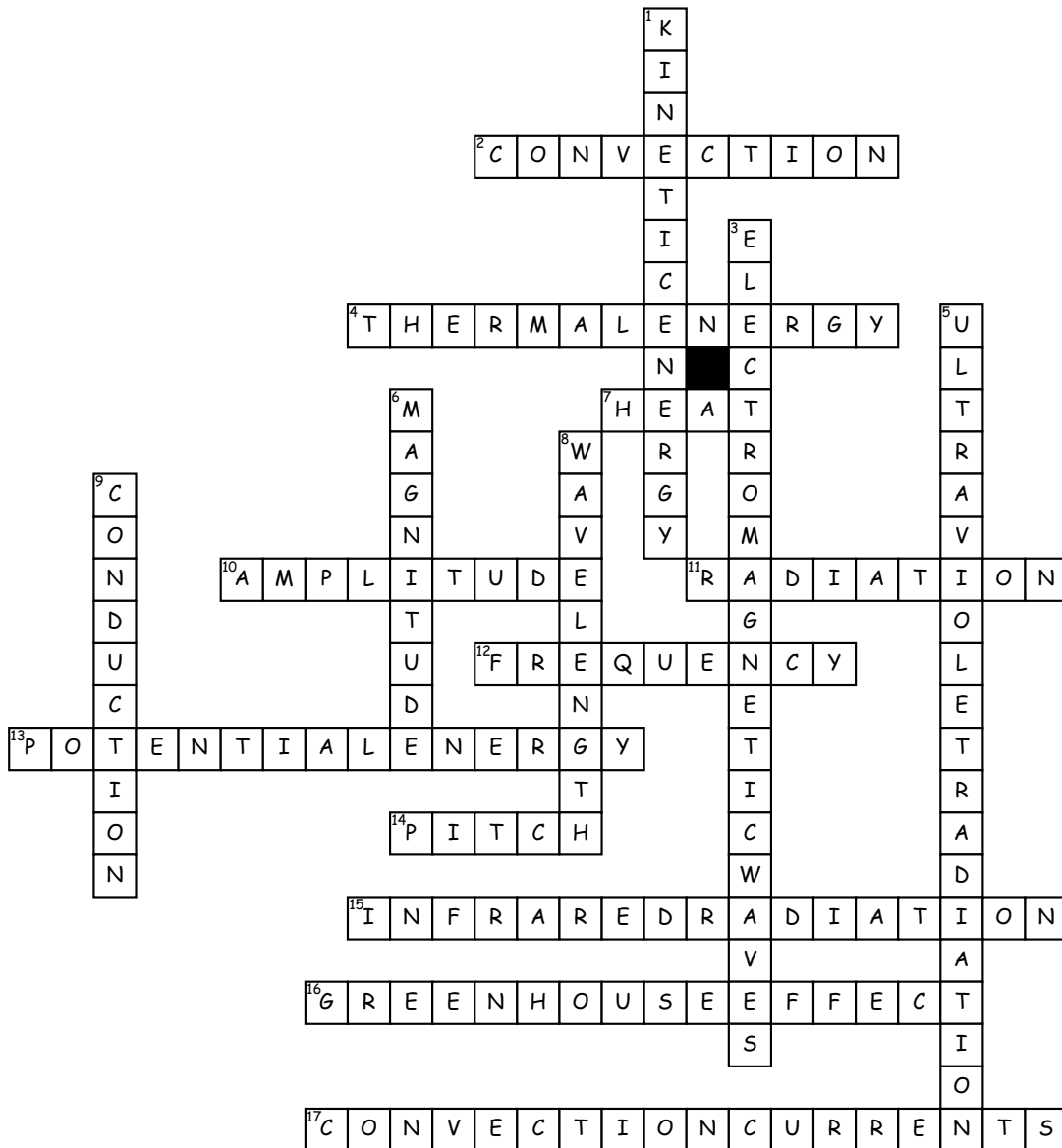


Name: _____

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Energy in the Earth's Atmosphere, Waves, and Heat Transfer



Across

2. The transfer of thermal energy by the movement of fluid.
4. The total energy of motion in the particles of a substance.
7. The transfer of thermal energy from one object to another because of a difference in temperature.
10. The distance from the rest position to the crest position which is half the vertical distance from a trough to a crest.
11. The direct transfer of energy by electromagnetic waves.

12. The number of waves passing a point in a certain time. Usually measured in a wave per second and in the unit of hertz (Hz).
13. Stored Energy
14. The quality of a sound governed by the rate of vibrations producing it; the degree of highness or lowness of a tone.
15. Electromagnetic waves with wavelengths that are longer than visible light but shorter than microwaves.
16. The process by which heat is trapped in the atmosphere by gases that form a "blanket" around Earth.
17. The circulation of a fluid as it alternatively heats up and cools down.

Down

1. Energy of Motion.
3. Waves that transfer electric and magnetic energy through the vacuum of space and that include radio waves, infrared, visible light, ultraviolet, X-rays, and gamma rays.
5. Electromagnetic waves with wavelengths that are shorter than visible light but longer than x-rays.
6. The size of a surface wave.
8. The distance between successive crests of a wave, especially points in a sound wave or electromagnetic wave.
9. The direct transfer of thermal energy from one substance to another that it is touching.