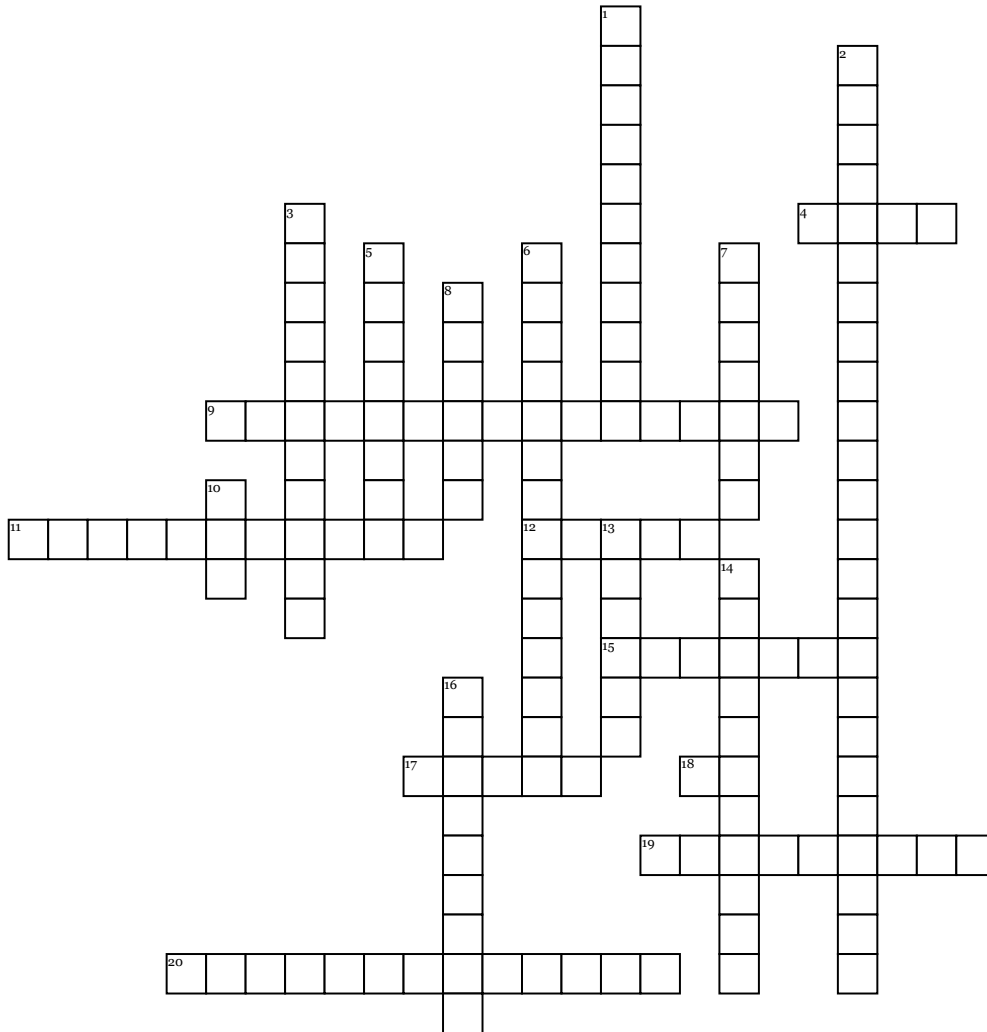


Transformation of Energies



Across

- 4. An amount of particles or matter that an object has.
- 9. What kind of wave travels and travels through space without a medium?
- 11. What has the full ability for light to go through objects?
- 12. Whats the point of a wave with a maximum height or value called?
- 15. What is a wave or energy that can be bounced off of a surface?
- 17. The rate of what something or someone is able to move.
- 18. The energy of any object that is moving or in motion.

- 19. The number of crests that a wave has that move past.

- 20. What is an electromagnetic wave that is invisible and felt as heat?

Down

- 1. A certain diagram that shows how energy is transferred and transformed.
- 2. What is the kinetic energy an object has because of its vibrational motion called?
- 3. What kind of mechanical wave that can be transmitted through the air by compressions that can be heard by humans? (Human Ears)
- 5. A force of any 2 objects put together with one another while moving.

- 6. What kind of wave needs a medium to travel?
- 7. A force that pulls on objects that are in the air.
- 8. What is it called when light doesn't bounce off of an object but it is taken in by that object?
- 10. The stored energy an object has and that has been lifted to any height.
- 13. The ability to cause some sort of change on something.
- 14. What is a radiant energy made from the sun?
- 16. Whats the height of a wave frame called? (rest to crest, rest to trough)

Word Bank

- | | | | |
|-----------------|----------------------------|-----------------|----------------|
| Crest | Gravity | Amplitude | Infrared Waves |
| Energy | Solar Energy | Mechanical Wave | KE |
| Absorb | Vibrational Kinetic Energy | GPE | Transparent |
| Electromagnetic | Friction | Energy Chain | Mass |
| Speed | Sound Energy | Reflect | Frequency |