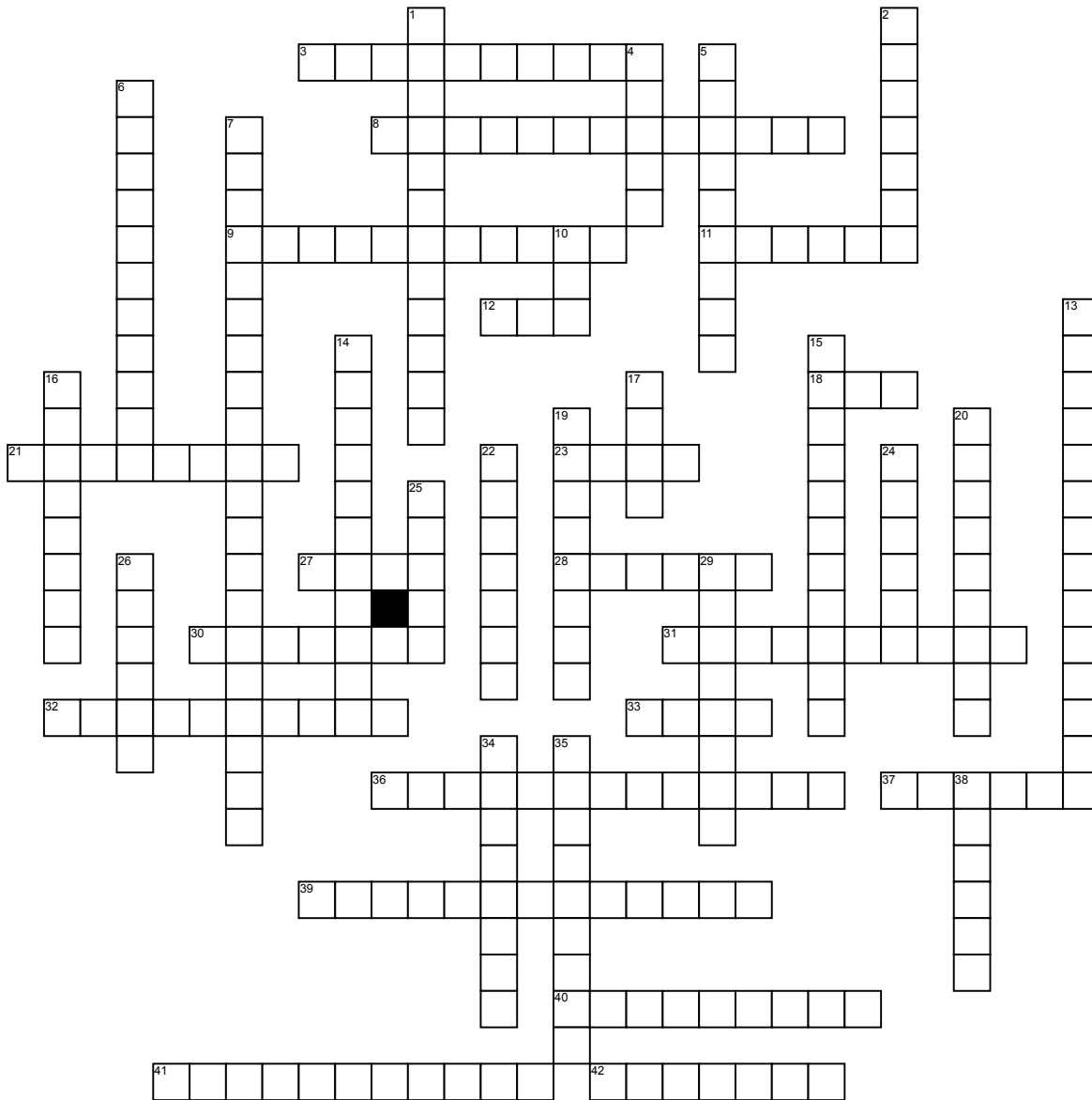


Name: _____ Date: _____ Period: _____

Transformation of Energy Unit Extra Credit



Across

3. lowest frequency on EM spectrum
 8. energy an object has because it's in motion
 9. energy emitted by the sun
 11. something that brings change
 12. movement of particles in a specific pattern that are caused by a disturbance or vibration
 18. particles that move randomly that end up transferring to the air, atmosphere, and space
 21. ability of light to go through an object
 23. the position in which the wave would sit if there was no disturbance moving through it
 27. a movement of energy without carrying mass
 28. lowest point of a wave
 30. a wave/energy bouncing off a surface
 31. 6 waves placed in order based on frequency, 5 invisible, 1 visible
 32. distance from crest to crest
 33. an invisible EM wave with a dangerously high frequency

Down

1. only visible wave on EM spectrum
 2. force that attracts a body toward any physical body having mass
 4. the rate at which something moves
 5. the number of crests of a wave that move past a given point in a given unit of time
 6. a diagram that shows energy source, transfers, transformations, and conservation of energy
 7. the law that says that energy can neither be created or destroyed
 10. stored energy an object has because it was lifted to a height
 13. a wave that needs a medium to travel
 14. a medium that allows almost all light to pass through it
 15. a medium that allows some light to pass through it
 16. something liable to change
 17. how much matter something contains
 19. the resistance that one surface or object encounters when moving over another
 20. determines waves energy, distance from rest to crest
 22. invisible EM wave that burns skin
 24. the measurement of something from base to top
 25. highest point of a wave
 26. a wave that needs no medium to travel
 29. the invisible EM wave with the highest frequency
 34. when energy is passed from one object to another
 35. when one energy turns into another
 38. when light is taken in by an object