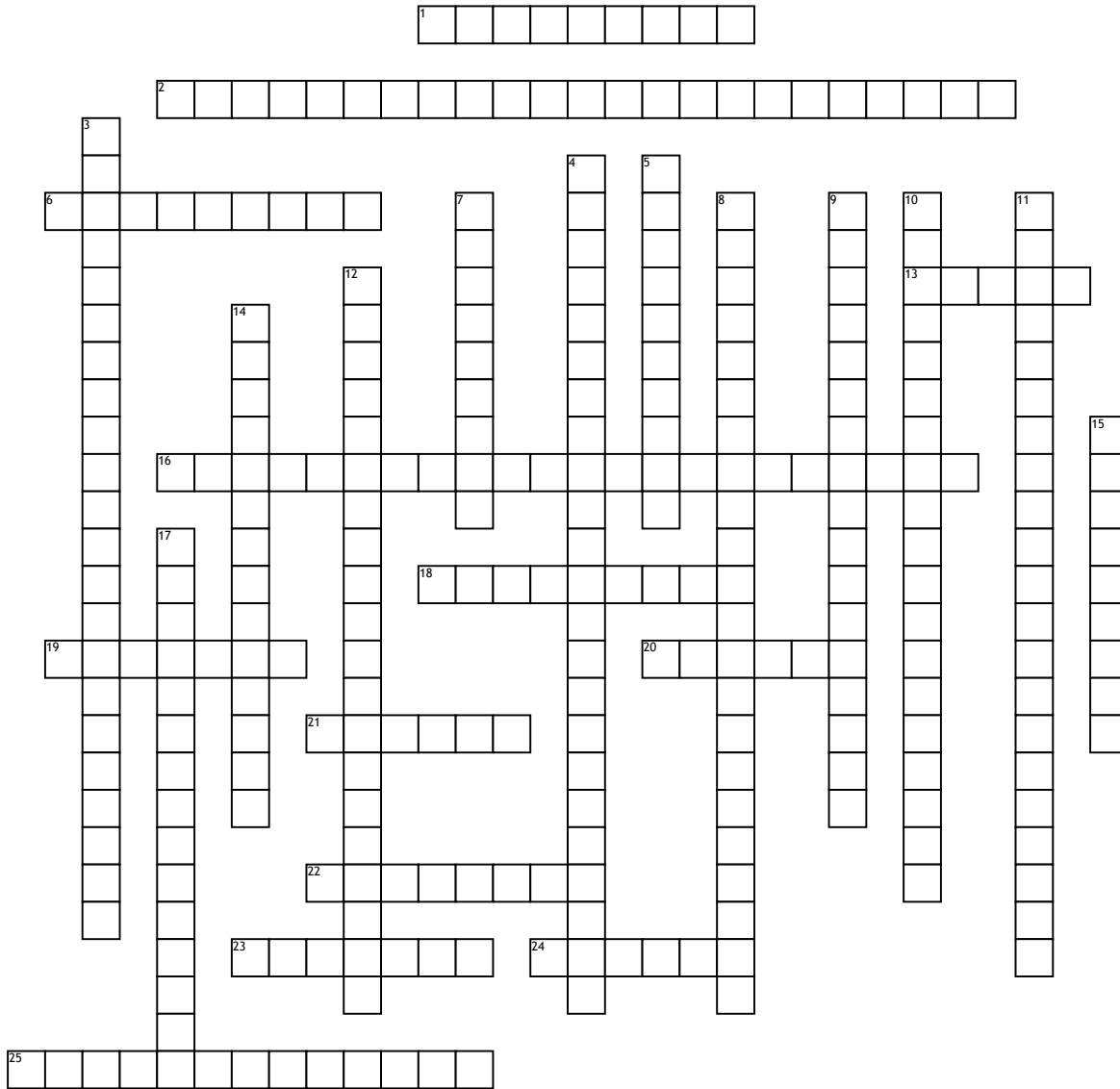


Name: _____

Date: _____

Light Vocabulary



Across

1. The number of waves that pass per unit of time
2. A form of energy exhibiting wave like properties
6. Predicts that all moving particles have wave properties
13. The probable location of the electrons in the atom
16. A number that represents the major energy levels
18. The energy levels contained within the principal energy level
19. The minimum amount of energy that can be gained or lost
20. A particle with no mass and carries a quantum of energy

21. The lowest energy state of the atom

22. Element symbol with dots to represent valence electrons
23. Outer energy electrons
24. The electrons fill orbits from lowest energy to highest
25. The number assigned to each orbit

Down

3. The arrangement of electrons
4. Includes all forms of electromagnetic energy
5. The distance between two points on a wave
7. One electron must enter each orbit before second of opposite spin may enter

8. A set of frequencies given off that identify an atom

9. An atomic model that shows electrons treated as waves
10. When photoelectrons are emitted from a metals surface
11. It is not possible to know the exact location distance and velocity of an electron at the same time
12. A number that represents the energy level of the electrons
14. Only two electrons per orbit with opposite spin
15. The height of the wave
17. A constant that is $= 6.626 \times 10^{-34}$ J.s