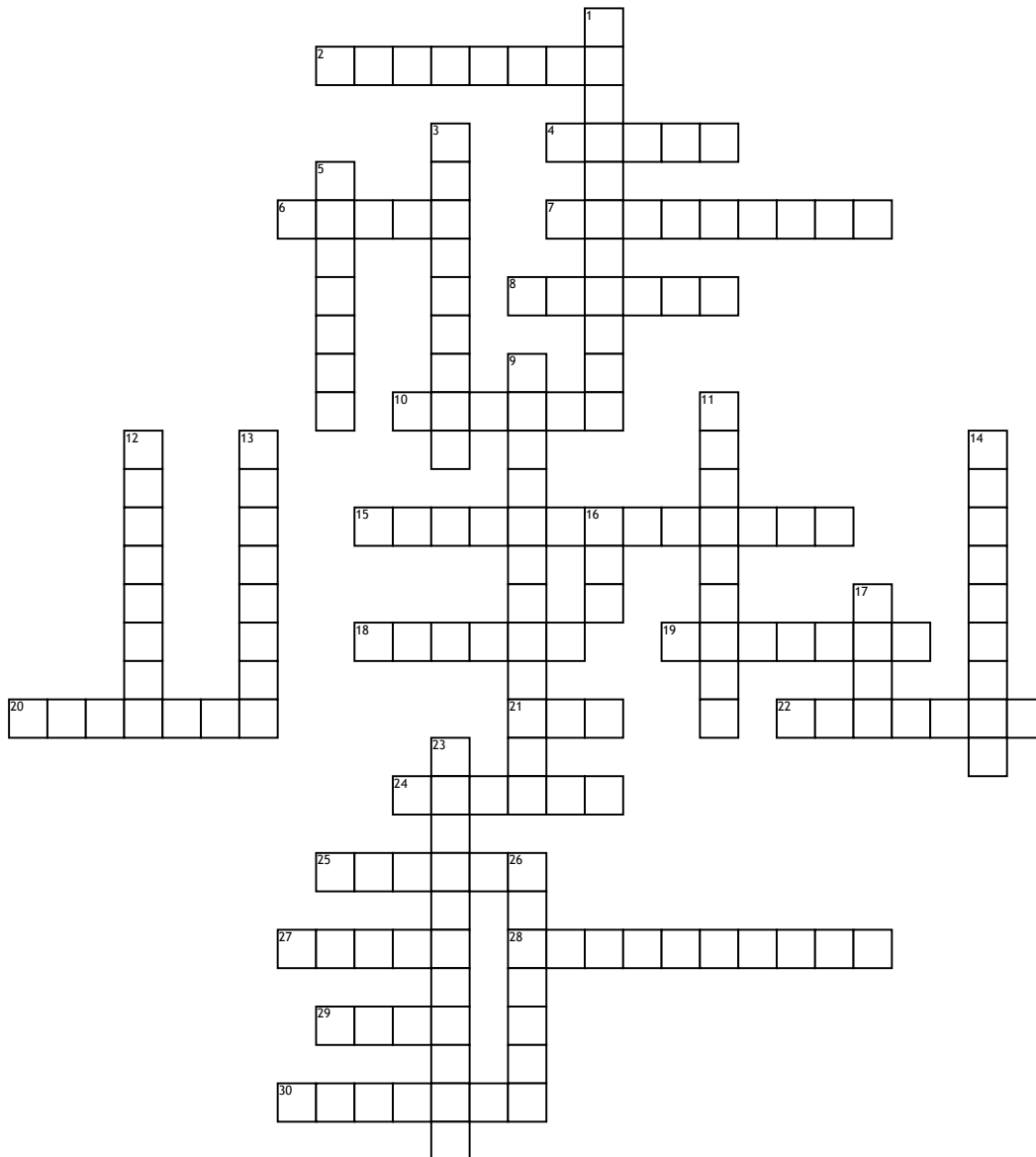


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# KaCynthia Crossword



## Across

2. a device or instrument designed to detect the presence of a particular object or substance and to emit a signal in response.  
 4. the fifth-largest planet in the solar system  
 6. the quantity of radioactive substance that emits one curie of activity.  
 7. the chemical element of atomic number 40,  
 8. a positively charged ion,  
 10. a stable subatomic particle occurring in all atomic nuclei, with a positive electric charge equal in magnitude to that of an electron, but of opposite sign.  
 15. the energy that holds a nucleus together, equal to the mass defect of the nucleus.  
 18. the chemical element of atomic number 88,  
 19. the action of dividing or splitting something into two or more parts

20. convert (waste) into reusable material.

21. British thermal unit  
 22. a rod-shaped fuel element in a nuclear reactor.  
 24. power derived from the utilization of physical or chemical resources, especially to provide light and heat or to work machines.  
 25. the process or result of joining two or more things together to form a single entity  
 27. a dwarf planet in the Kuiper belt  
 28. an engine or other apparatus that provides power for a machine, building, etc.  
 29. the basic unit of a chemical element.  
 30. the intellectual and practical activity encompassing the systematic study of the structure and behavior of the physical and natural world through observation and experiment.

## Down

1. the process or fact of irradiating or being irradiated.

3. the branch of science that deals with the identification of the substances of which matter is composed;  
 5. the largest planet in our galaxy  
 9. the number of protons in the nucleus of an atom,  
 11. protect (someone or something) from a danger, risk, or unpleasant experience  
 12. annual event celebrated on April 22.  
 13. the state of being exposed to contact with something.  
 14. thing that has harmful or poisonous effects.  
 16. a break or hole in an object or between two objects.  
 17. the central or most important part of something  
 23. the surroundings or conditions in which a person, animal, or plant lives or operates.  
 26. What is the eighth and farthest known planet from the Sun in the Solar System