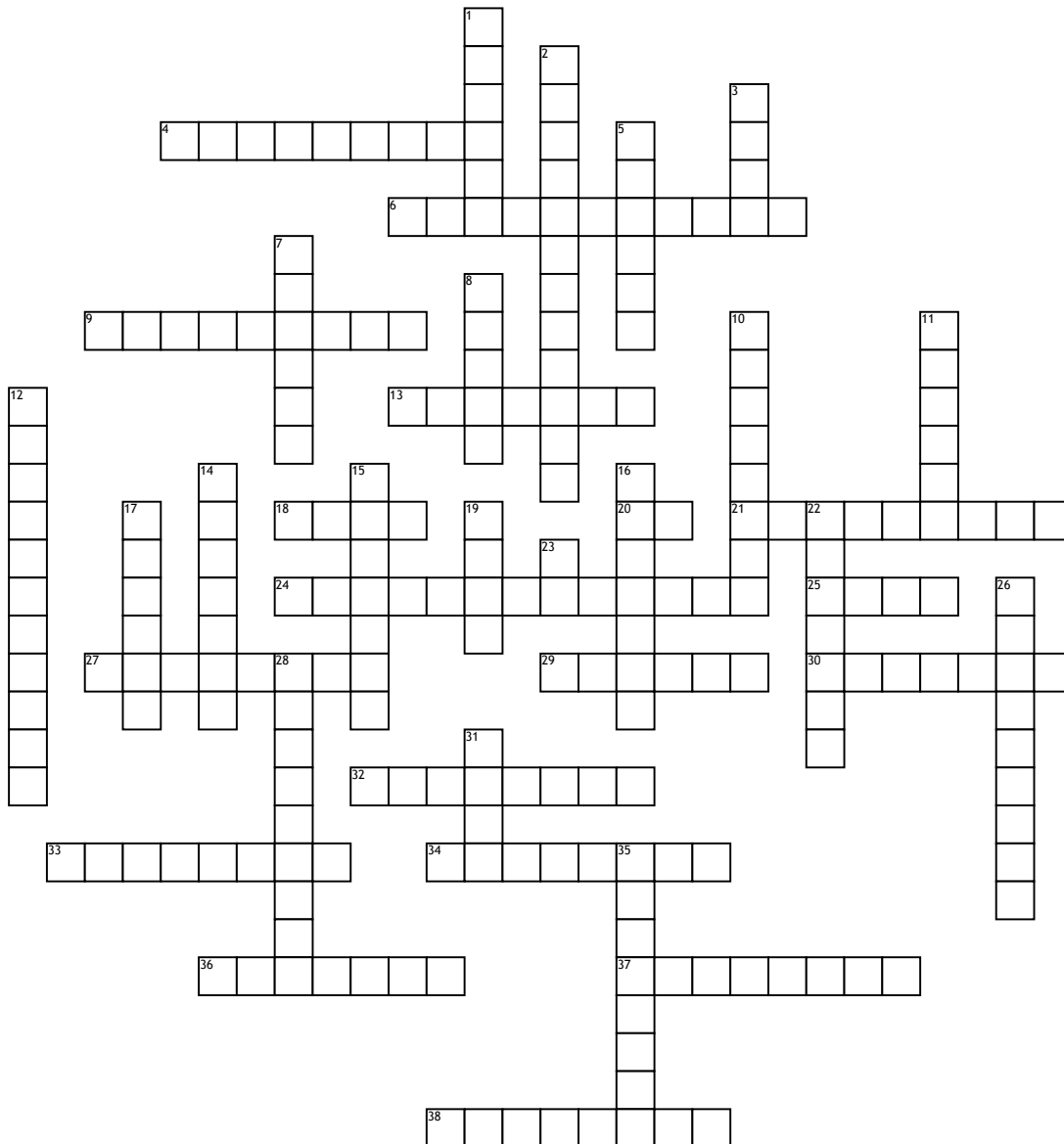


# Electricity



## Across

4. A material which permits a flow of energy  
 6. A type of energy that uses charged particles  
 9. A device that converts mechanical energy to electrical energy  
 13. The path of which electrical energy flows through  
 18. The unit used to measure the electrical resistance  
 20. Alternating Current  
 21. A flash of light in the sky caused by electrical discharge between clouds and the Earth's surface  
 24. To injure or kill someone by electric shock  
 25. One of 3 components needed for an electrical circuit  
 27. Lacking positive qualities  
 29. A closed circuit where the current follows one path  
 30. Used to measure the current in a circuit  
 32. A connection from a circuit to the earth (safety measure)

33. A point of connection on an electrical device (eg. Battery)  
 34. A device that reduces the flow of an electric current  
 36. The flow of electrons  
 37. A closed circuit where the current divides into two or more paths  
 38. A thin thread made of tungsten that glows when electric current flows through it

## Down

1. To provide an amount of electricity to something  
 2. A defect in a circuit that causes the current to flow in the wrong direction  
 3. The unit used to measure electrical potential difference  
 5. A device that can start to stop flow of electricity in a circuit  
 7. Electricity that is not moving  
 8. A flash produced by electrical discharge

10. He proved that lightning was a form of electricity (Benjamin....)  
 11. A positively charged subatomic particle  
 12. A device used to transfer electrical energy from one circuit to another  
 14. Neither positive nor negative  
 15. The unit used to measure electric current  
 16. A cell that is a source of power  
 17. A metal that is a good conductor of electricity  
 19. A thin, flexible thread of metal  
 22. He discovered animal electricity (Luigi....)  
 23. Direct Current  
 26. A negatively charged subatomic particle  
 28. A material that prevents energy from easily passing through it  
 31. A safety device that cuts off an electric circuit if the current exceeds a safe level  
 35. A wire that activates a trap or light when disturbed