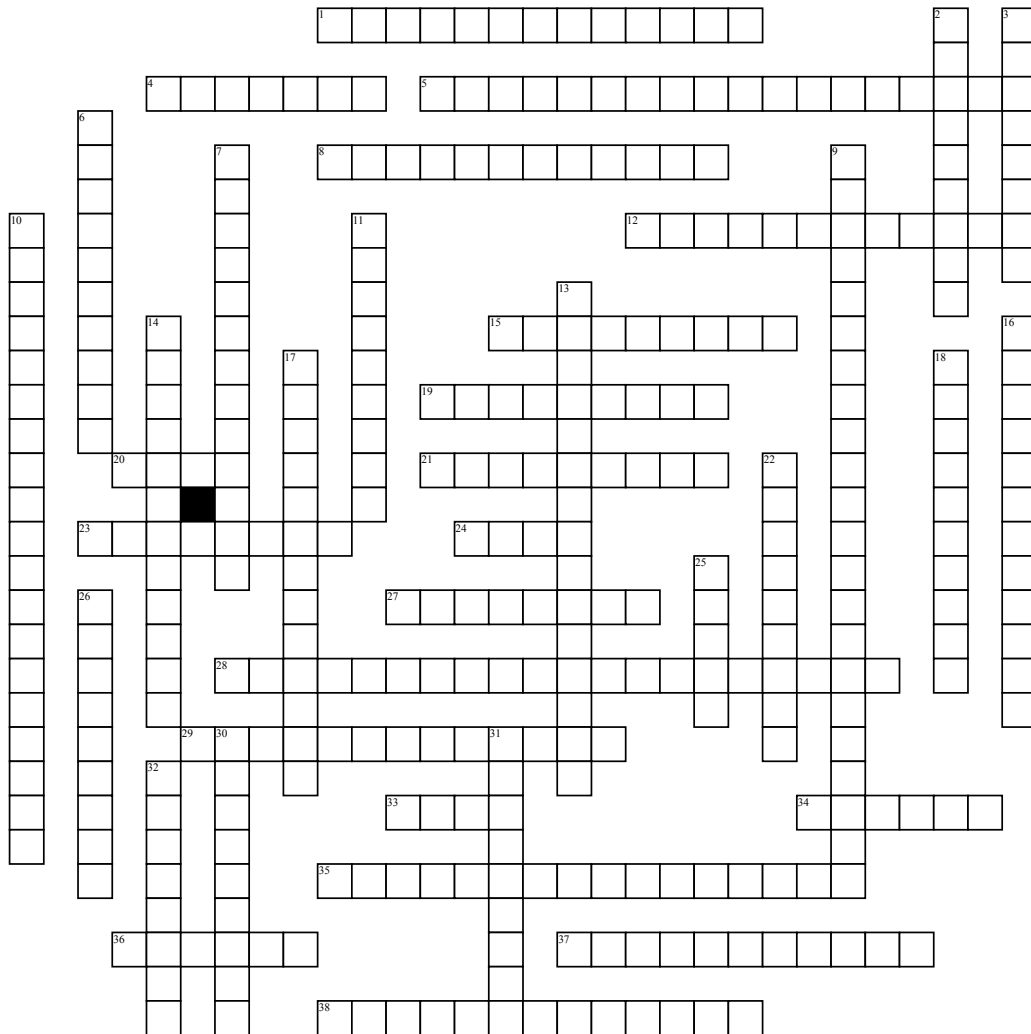


Giant Crossword



Across

- 1. a metal oxide formed from the reaction between water and a basic solution
- 4. if all the atoms in a substance has the same identity it becomes an _____
- 5. graph amount of absorption as a function of wavelength
- 8. an electron or positron emitted during beta decay
- 12. the phase transition of a substance from a gas to a liquid
- 15. a type of matter with a fixed composition
- 19. a comparative measurement of the electrical conductivity of a solution defined as the molar concentration of a sodium chloride
- 20. a unit that measures the electrical potential transferred
- 21. any object or material that allows the flow of an electric current in one or more directions. contrast insulator
- 23. a substance in which the atoms of 2 or more elements are combined
- 24. chemical species that either accepts protons or else donates electrons or hydroxide ions
- 27. law that states the concentration of a solution is directly proportional to its light absorbance
- 28. mixture in which different materials can be easily distinguished
- 29. what is the expression of the uncertainty or inaccuracy of a measurement

Word Bank

- | | | | | | |
|-------------------|----------------|------------------|-------------------------|---------------------|-----------------------|
| volume | beta decay | basic solution | concentration | compression | compound |
| condensation | absolute error | acid anhydride | substance | beryllium | absolute temperature |
| condosity | barium | absolute alcohol | compound | absorbance | radiation |
| berkelium | acid | accuracy | absorption spectroscopy | conformation | heterogeneous mixture |
| base metal | Beer's Law | conductor | element | basic | absorption |
| radioactive decay | absorptivity | beta particle | base | absorption spectrum | base anhydride |
| volt | barometer | | | | |

- 33. what is a chemical species that accepts electrons or donates protons or hydrogen ions
 - 34. the quantity of a 3d space closed by a surface
 - 35. the process of an unstable atomic nucleus losing energy by emitting radiation
 - 36. alkaline earth metal with element symbol Ba and atomic number 56
 - 37. an area in a longitudinal wave where the particles are closer and pushed in
 - 38. a nonmetal oxide that reacts with water to form an acidic solution
- Down**
- 2. radioactive vmetal with element symbol Bk and atomic number 97
 - 3. a substance that is made up of two or more chemically bonded elements
 - 6. what is the measure of the amount of light absorbed by a sample
 - 7. aqueous solution containing more hydroxide ions than hydrogen ions; solution with pH>7
 - 9. the technique used to determine concentration and structure of a sample based on which wavelengths of liquid are absorbed
 - 10. what is the temperature measured using the kelvin scale
 - 11. type of radioactive decay that results in spontaneous emission of a beta particle
 - 13. what is the common name for high purity ethanol or ethyl alcohol

- 14. the spatial arrangement of atoms affording distinction between stereoisomers which can be interconverted by rotations about formally single bonds
- 16. the absorption cross section of extinction coefficient, which is the absorbance of a solution per unit path length and concentration
- 17. the abundance of a constituent of a mixture divided by the total volume of the mixture.
- 18. process by which atoms, ions, or molecules enter a bulk phase
- 22. any metal besides a precious or noble metal used for jewelry or in industry
- 25. alkaline or having a pH> 7
- 26. instrument used to measure atmospheric pressure
- 30. alkaline earth metal with element symbol Be and atomic number 4
- 31. energy released in the form of waves or subatomic particles when there is a change from high-energy to low-energy states
- 32. the closeness of a measurement to a true or accepted value