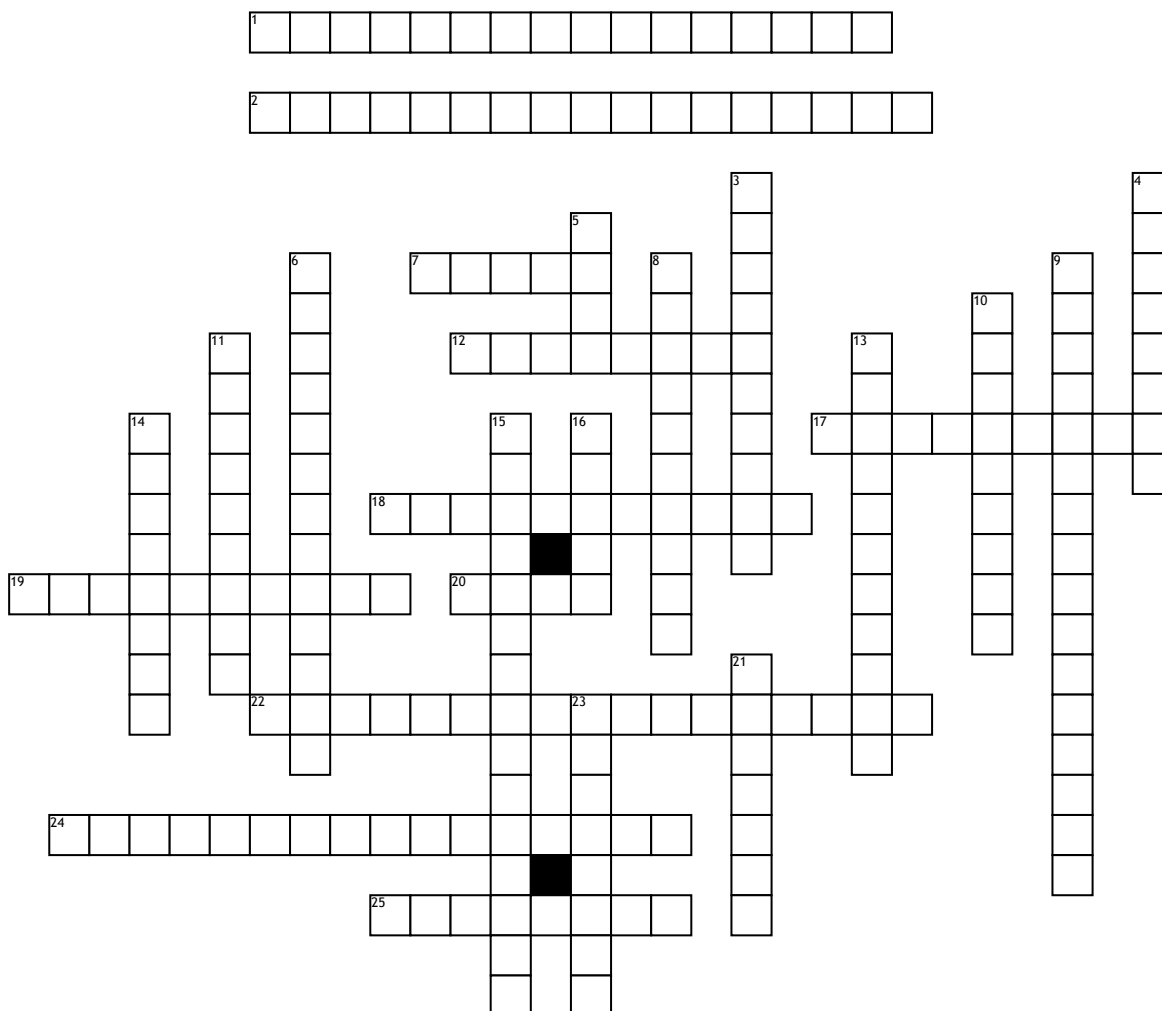


# CHEMICAL REACTIONS



## Across

1. unstable nuclei spontaneously emits energy through radiation
2. reaction in which a single element is replaced with a similar element
7. type of decay that does not affect the overall mass of the parent isotope
12. elements that cannot exist as a single atom
17. substances found on the left side of equation
18. insoluble product of double replacement that settles to the bottom
19. the ability of a compound do dissolve in water
20. type of decay where an electron is emitted
22. reaction where metals of two ionic compounds switch

24. elements of compounds rearrange to form new compounds
  25. type of nuclear particle that is used in PET scans
- ## Down
3. small numbers to the right and below a symbol
  4. speeds up a reaction
  5. another name for an ionic compound
  6. reaction in which one substance breaks down into two
  8. reaction in which hydrocarbon burns to make carbon dioxide and water
  9. numbers of atoms on each side are equal
  10. reaction that combines two substances to yield one new substance

11. energy released during nuclear decay
13. large whole numbers that tell how many molecules
14. substances found to the right of the arrow
15. reaction that affects the nucleus of an atom
16. particle that is the same as a helium atom
21. diagnostic tool that uses radioactive isotopes to determine function of organ
23. radioactive particle with same as an electron but with a positive charge