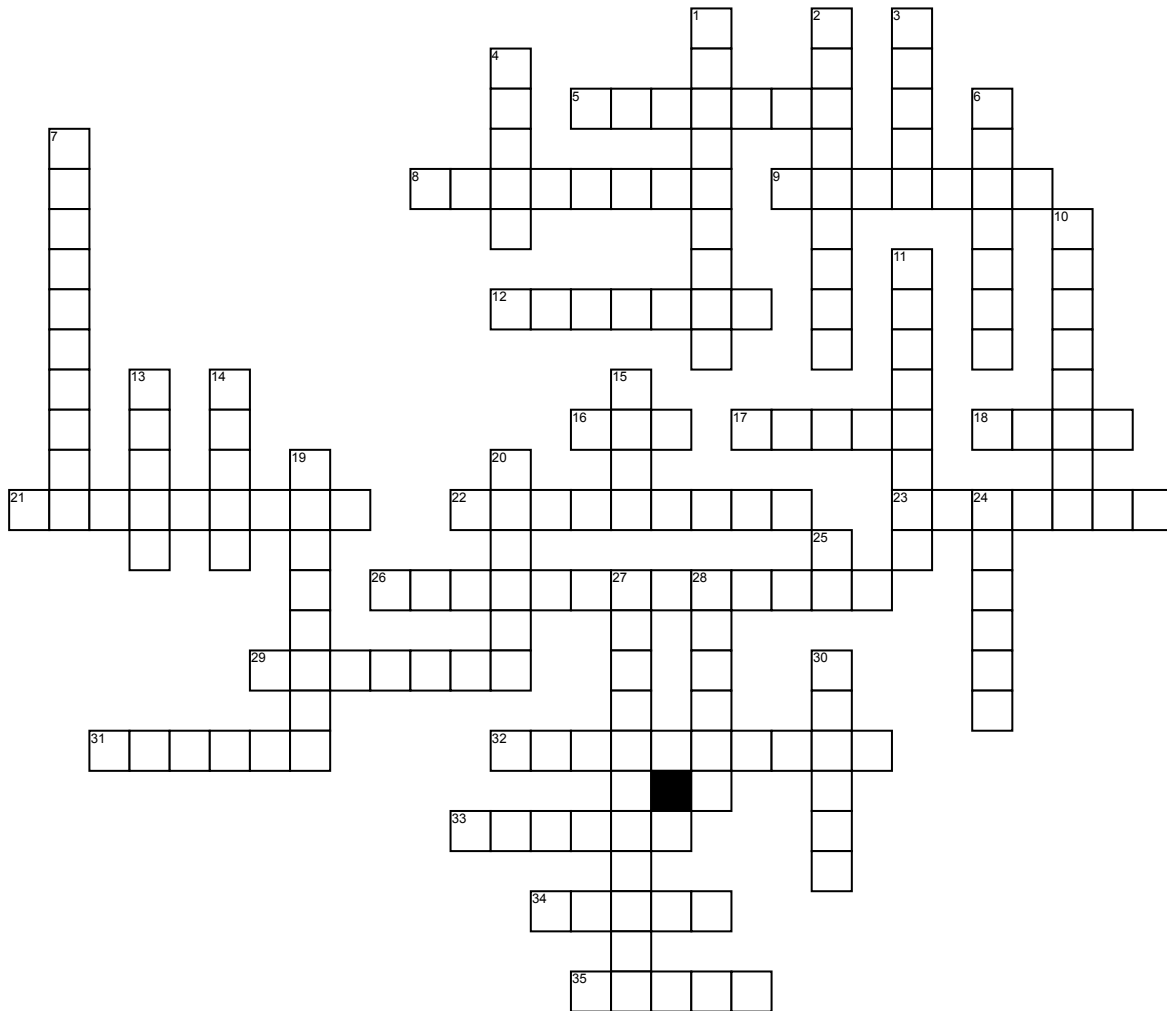


Reactions Review



Across

5. An alternative fuel for reactors is _____.
8. A _____ reaction is a reaction that alters bonds between atoms.
9. _____ is the nuclear process used to power nuclear reactors.
12. The Strong Force is the force that holds together the _____.
16. An acid turns litmus paper _____ and dissolves some metals.
17. Hydroelectric power harnesses energy from the movement of _____.
18. An unstable atom will _____ radiation until it becomes smaller and more stable.
21. A _____ energy is an energy source that produces energy without producing waste.
22. The _____ in a chemical equation are what goes in to the reaction.
23. A _____ reaction changes the protons and neutrons of an atom.
26. When the products of a reaction cause another reaction, it's called a _____.

29. Currently, nuclear reactors mainly use _____ as a fuel.

31. _____ is the nuclear process that powers the sun.
32. If a reaction is releasing heat, then it is _____, and will feel hot.
33. Chemical equations need to be balanced do to the Law of Conservation of _____.
34. _____ radiation has the most energy.
35. The pH _____ is the measurement of acidity and Basicity of a substance.

Down

1. If Carbon-14 were to go through alpha decay, it would become _____-10.
2. Fusion is the process of _____ two or more nuclei into one larger nucleus.
3. All elements other than Hydrogen were formed in _____ by fusion.
4. An alpha particle can be stopped with _____.
6. Everything that comes out of a reaction is a _____.
7. A _____ reaction is a reaction that can go in both directions.

10. The amount of time it takes for radioactive elements to decay is called _____.

11. When Oxygen-19 releases a beta particle, it becomes a stable atom of _____.
13. _____ has a neutral pH of about 7, and is neither an acid or a base.
14. _____ is a renewable energy that relies on the sun for power.
15. Reactants are on the _____ side of a reaction arrow.
19. A beta particle is a single _____.
20. An alpha particle is the same as the nucleus from a _____ atom.
24. Half-life can be used to test the age of materials by _____ dating.
25. The size of a sample has _____ effect on what percent will decay in a half-life.
27. A reaction that feels cold to the touch is _____.
28. Cobalt-60 is used in the treatment of _____.
30. A low pH indicates that a substance is _____.