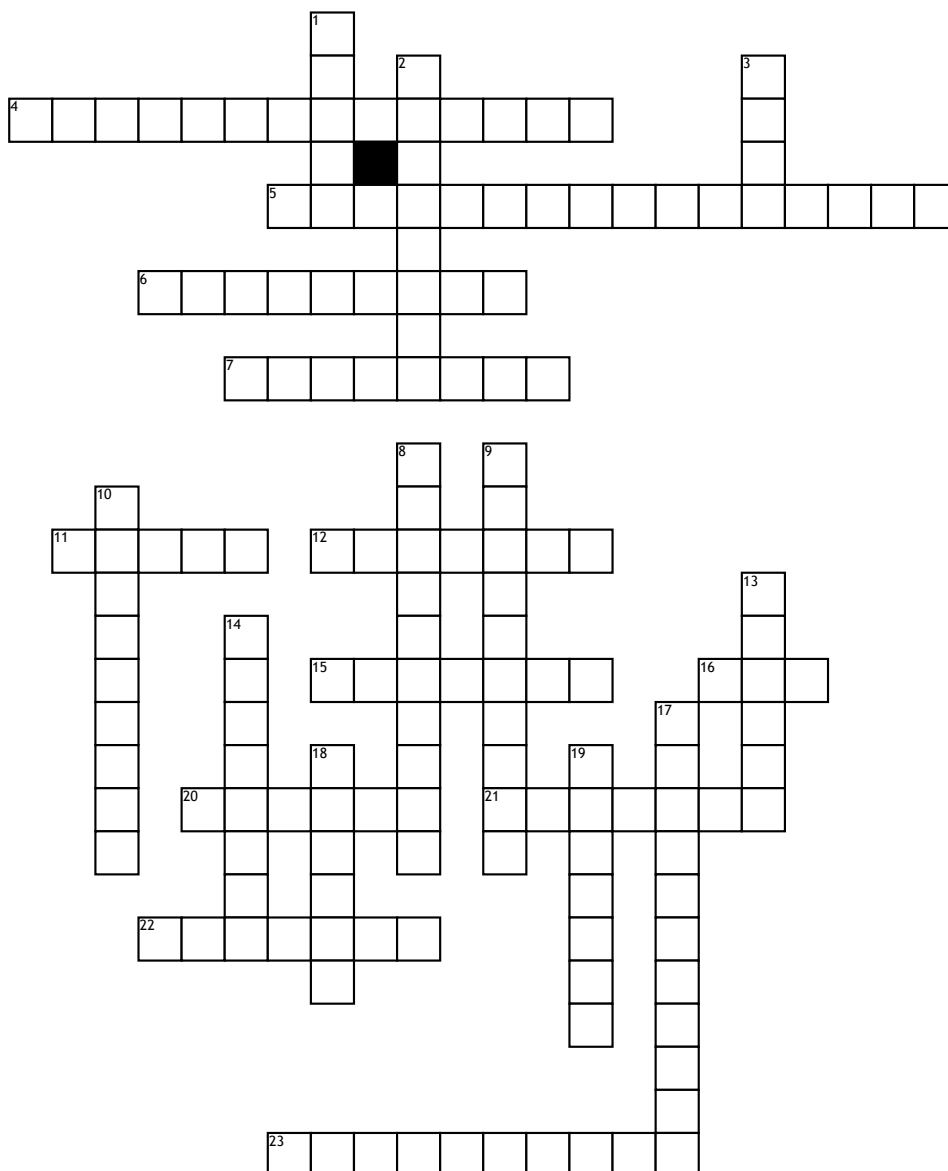


Year 11 Final Chemistry Challenge



Across

4. The technique for separating soluble dyes in a mixture.
 5. This is a list of elements in order of reactivity (10,6)
 6. A reaction in which oxygen is removed or electrons are gained
 7. The elements found in Group 7 of the Periodic Table
 11. A mixture of two or more elements where at least one of them is a metal
 12. A substance made as a result of a chemical reaction
 15. A substance made up of only one type of atom
 16. A charged particle produced by the loss or gain of electrons
 20. A soluble base whose solution has a pH above 7

21. An uncharged particle found in the nucleus

22. The negative electrode in electrolysis

23. The technique used to separate substances that are insoluble in a particular solvent from those that are soluble

Down

1. The positive electrode in electrolysis

2. The reaction used in the oil industry to break down large hydrocarbons into smaller, more useful ones

3. The oxide, hydroxide or carbonate of a metal that will react with an acid to make a salt

8. A reaction that transfers energy to its surroundings

9. A covalent bond formed by the sharing of two pairs of electrons (6,4)

10. Easily ignited and capable of burning rapidly

13. A positively charged particle found in the nucleus

14. A substance that speeds up a chemical reaction but is not used up

17. A mixture that has been designed as a useful product

18. The element with the atomic number 6

19. The corrosion of iron