

Doc Brown's free online GCSE level Chemistry Revision Notes ~US grades 9-10, for students aged ~14-16

1. [Important basics of CHEMISTRY, what use is chemistry?, methods of separating mixtures](#)
2. [Chemical analysis - chemical tests used in school/college laboratories](#)
3. [Acids, Alkalis, pH scale, bases, neutralisation, salt preparations and tests for ions and gases](#)
4. [Water and aspects of aqueous chemistry](#)
5. [The Periodic Table, Periods, Groups and Series of Elements](#)
6. [Reversible reactions, chemical equilibrium, ammonia, nitric acid, fertilisers, pollution](#)
7. [Reactivity Series of Metals, Experiments and Corrosion](#)
8. [The Mining and Extraction of Metals - iron, copper, aluminium, recycling](#)
9. [Aspects of industrial chemistry, applications of chemical industry, life cycle assessments](#)
10. [Electrochemistry and Electrolysis Experiments, fuel cells](#)
11. [What controls the rate \(speed\) of chemical reactions? theory, experimental procedures](#)
12. [Energy transfer changes in chemistry - exothermic and endothermic reactions](#)
13. [States of Matter - Gases, Liquids and Solids - Particle Models](#)
14. [Atomic Structure and Chemical Bonding - ionic, covalent and metallic](#)
15. [Materials Science - Nanochemistry and Smart Materials](#)
16. [OIL and its useful products and an Introduction to Organic Chemistry](#)
17. [Earth Science - types of rocks and plate tectonics](#)
18. [Chemical Calculations - how to solve numerical problems in chemistry](#)
19. [Radioactivity, alpha, beta & gamma ionising radiations, nuclear power](#)