Year 8 Science - Chemistry Outcomes
Matter
1. Describe the science of Chemistry 2. List three main states of matter and describe their properties 3. Draw diagrams of the three states of matter using the principles of the "kinetic theory of matter" 4. Describe what happens when a state of matter changes into another (eg: liquid to gas) using the principles of the "kinetic theory of matter" 5. Describe what the terms 'elements' and 'atoms' mean 6. List the elemental symbol for common elements (activity 7) 7. Identify which elements are metals and which are non metals on a periodic table 8. Describe the difference between a mixture and a compound 9. Define and draw examples of molecules 10. Write down chemical formula from a known combination of atoms 11. Name chemical compounds from a known formula
Solutions
12. Define the terms solution, solute, solvent, soluble and insoluble 13. Explain what a saturated solution is and how to make one 14. Explain the different type of liquid mixtures: colloids, emulsions and suspensions
Separation Techniques
15. Explain how sedimentation and decantation can be used to separate mixtures 16. Explain how filtration can be used to separate mixtures 17. Explain how centrifugation can be used to separate mixtures 18. Explain how evaporation can be used to separate mixtures 19. Explain how distillation can be used to separate mixtures and label a device that chemists use for distillation 20. Explain how chromatography can be used to separate mixtures 21. Explain how crystallisation can be used to separate mixtures
Chemical Reactions
22. Explain the difference, using examples, between a physical and chemical change 23. Use examples to show how to write chemical word equations 24. Explain a method that can prepare and collect carbon dioxide gas 25. Explain a method that can prepare and collect oxygen gas 26. Explain a method that can prepare and collect hydrogen gas

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