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| Year 7: Chemistry - Properties of Matter | What is everything made of? | I can describe the properties of solids, liquids and gases  |   |
| I can classify substance as either a solid, liquid or gas based upon their properties |   |
| I can relate the properties of solids, liquids and gases to their uses |   |
| I can draw a diagram to represent the arrangement of particles of solid, liquids & gases |   |
| I can describe, using the particle model the layout, closeness and movement of particles in solids, liquids and gases |   |
| I can use the particle model to explain the properties of solids, liquids and gases |   |
| What happens when materials change? | I can recall the names of the individual processes in changing state |   |
| I can describe the changes in state using the particle model |   |
| I can draw heating & cooling curves |   |
| I can interpret information from heating & cooling curves |   |
| What's a pure substance? | I can define a pure & impure substance scientifically |   |
| I can recall and define what is meant by a mixture |   |
| I can describe & explain the process of dissolving using key scientific language |   |
| I can discuss diffusion in terms of the particle model |   |
| How can mixtures be separated? | I can recall the definition of a mixture |   |
| I can give examples of separation methods |   |
|  I can describe & explain how these methods are used |   |
| I can use these methods to separate a given mixture |   |
| How can we use chromatography? |  I can recall that chromatography can be used to separate mixtures |   |
| I can describe the process of chromatography using key scientific terms |   |
| I can use chromatography effectively |   |
| I can interpret chromatograms |   |
| How do Scientists know which method to use? | I can select which is the best method to use |   |
| I can plan an experiment using this method |   |
| I can use this plan to produce clean water |   |

**7C1 – Properties of matter**