Year 8 Materials and Substances Learning Journey

Lesson Remember this!

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| Elements= made of one thing, compounds= made of 2 or more things joined, mixtures= 2 or more things not joined |
| Mixtures are made from 2 or more substances that are not joined |
| Mixtures can be formed by a solid dissolving in a liquid |
| Changing temperature can affect how much solid can dissolve in a liquid |
| Increasing the temperature of water affects how much solid will dissolve in it |
| A compound is made when elements join in a chemical reaction |
| Lavoisier showed that oxygen joins with substances when they burn so they increase in mass |
| New substances are made in chemical reactions |
| Reactions can involve making of new substances |
| Chemical reactions can be slow or fast |
| Compounds consist of 2 or more elements chemically joined |
| Some materials are made of elements or compounds and some are made of mixtures |

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| 1- Classify substances as elements, compounds or mixtures |
|  2- Use the particle model to describe elements, compounds and mixtures |
| 3- Separating a mixture |
| 4- Investigate how temperature affects how well solids dissolve |
| 5- Collect results and calculate a mean  |
| 6- Draw a graph of results and write a conclusion  |
| 7- Substances increase in mass when you burn them  |
| 8- Investigate burning and the work of Lavoisier |
| 9- Learn how limestone and acid react |
| 10- Learn about exothermic and endothermic reactions |
| 11- Catalysts can speed up a reaction |
| 12- Learn about acids and alkalis |
| 13- Learn about polymers, ceramics and composites |



