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| **Curriculum Plan for Parents – Year 7** |

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| **Subject** | Science | **Contact Person** | Mr P Merryweather |

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| **Half term and topic** | **Your child will learn....** | **Key Homework** | **Assessment** |
| Autumn 1 | **The Particle Model**  Solids, liquids and gases and related phenomena such as diffusion, pressure, expansion and contraction and changes of state. | Learn key words and their meanings.  Explaining dissolving through particle diagrams | Explaining diffusion  Evaluating models  End of topic test |
| Autumn 2 | **Elements, Mixtures and Compounds**  Elements mixtures and compounds and how to separate them.  **Biological Structures**  Cells, movement and breathing | Learn key words and their meanings | Choosing separation techniques for a variety of mixtures.  End of topic test |
| Spring 1 | **Respiration, Reproduction and Inheritance**  How living things use food and oxygen for energy  How humans and plants reproduce and pass on genetic information | Learn key words and their meanings | Explaining the effects of exercise on breathing  End of topic test |
| Spring 2 | **Variation and Evolution**  How differences in living things lead to changes in populations  **Energy Costs, Transfers and Work**  How to determine how efficiently energy is used and how much it costs. | Learn key words and their meanings | Describe and explain the evolution of the horse.  End of topic test |
| Summer 1 | **Thermal Transfer**  Mechanisms of heating and cooling  **Speed and Gravity**  Determining speed and terminal velocity. Difference between mass and weight | Learn key words and their meanings | End of topic test |
| Summer 2 | Contact Forces and Pressure  Forces arising from objects in contact. Stretching and deformations. Pressure on surfaces and in liquids. | Learn key words and their meanings | End of topic test |