

**Key Stage 4**

**AQA Science Single Award**

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|  | **Autumn / Spring term Yr 10** |  |  | **Summer term Yr 10 / Autumn term Yr11** |  |  | **Spring / Summer term Yr 11** |
|  | **Component 1: the Human Body**  **Key knowledge:**   * Understanding how the body is organised * Exploring how the body’s processes are co-ordinated * Looking at how health and disease can impact our body   **Suggested ELC TDA:** Investigating which food (biscuits or crisps) contain the most energy.  *Additional opportunities for ELC practical development and are included within the medium-term planning*  **Real life context piece:** 2014 Ebola outbreak in Nigeria  *Where practicable some elements of this topic will be taught at the end of KS3 at the point that all KS3 knowledge is secure* |  |  | **Component 3: Elements, mixtures & compounds**  **Key elements of the module:**   * Understanding that everything in the Universe is made of atoms. * Know that mixtures contain two or more elements and that these can be separated. * Understand that compounds are formed when two or more elements are joined by chemical bonds.   **Suggested ELC TDA**: Investigating the different colours in food colouring using paper chromatography  *Additional opportunities for ELC practical development and are included within the medium-term planning*  **Real life context piece:** Pioneers in the periodic table |  |  | **Component 5: Energy, forces & the structure of matter.**  **Key elements of the module:**   * Understanding the principles behind energy stores and transfers * Exploring how forces impact our everyday lives and the principle of work * Looking at how nuclear radiation is produced   **Suggested ELC TDA:** Investigating which material keeps my cup of tea the hottest the longest.  *Additional opportunities for ELC practical development and are included within the medium-term planning*  **Real life context piece:** Nuclear gone wrong |