**Year 7: ASK Yourself!**

**Subject: Science**

**Topic: Summer**

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|  | **Launching**  **1-2** | **Developing**  **3-4** | **Progressing**  **5-6** | **Mastering**  **7-9** |
| Text Box**kills** |  |  | Shape |  |
|  | I need to be able to carry out tests for evidence of photosynthesis,  I can draw a force diagram  I can take measurements of stretch as force changes e.g. springs  . | I can confidently carry out tests for photosynthesis.  I can sketch the forces acting on an object and label size and direction  I can plan to investigate the effects of applied forces on springs; and generate data from experiment. | Investigate the factors that affect the rate of photosynthesis  I can measure forces using a Newtonmeter  I can develop ideas of the linear relation of Hooke’s Law. | I can interpret data from tests for photosynthesis.  I can use the formula: Weight(N) = mass (kg) x gravitational field strength (N/kg).  I can produce a graph and analyse outcomes |
| Text Box                 **nowledge** | Shape |  |  |  |
|  | Plants make food through the process of photosynthesis.  I understand forces can be balanced or unbalanced. | Plants have specially adapted structures that allow them to photosynthesise.  I can distinguish between Mass as a property of an object and weight which depends on the mass and gravitational field strength. | I understand the word and symbol equations for the process of photosynthesis  Identify the link between weight and gravitational attraction | Identify and explain how water / minerals move through plants.  Understand that friction acts in the opposite direction to the direction of movement. |