Year 7 Autumn (Harvest and the Night Sky)

**Year 7: ASK Yourself!**

**Subject: Science**

**Topic: Spring**

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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 use techniques to separate mixtures.  Test foods safely for starch, sugars, protein and fat; | I can partially use techniques to separate mixtures.  I can predict the results of food tests for a range of foods; | I can confidently suggest combination of methods to separate a complex mixture and justify the choices.  I can evaluate the risks involved in carrying out food tests. | I can expertly evaluate the evidence to identify an unknown substance using separating techniques.  I know how to use each chemical in all food tests. |
| Text Box                 **nowledge** | Shape |  |  |  |
|  | I know that mixtures may be separated due to differences in their physical properties.  I can describe the structure and function of different parts of the male and female reproductive system;  Describe healthy diet; carbs, lipids (fats and oils), proteins, vitamins, minerals, dietary fibre and water, | I partially know how separating techniques work.  Explain gametes and the process of fertilisation;  Compare the energy requirements of different ages and lifestyles; | I confidently know the most suitable technique to separate out a mixture of substances.  I recognise changes in the male/female body during puberty;  Explain how the digestive system digests food | I understand how substances dissolve using the particle model. I can apply evidence from chromatography to unknown substances.  I can describe the process of menstruation.  Analyse foods through calculations of energy requirements and comparing energy values (from labels) (kJ)  Explain how enzymes work in the digestive system |