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|  |  **Pathway 1** | ***KS4 Cycle 1*** | **Autumn 2****Topic: Forces**  |
| **Learning Intention:** For pupils to learn abouttypes of forces such as gravity, friction, water resistance and air resistance.  |
| **Key knowledge that should be learned during this SoW**  | All | Most | Some |
| **Concept:**  | Pupils will explore gravity, friction, water and air resistance. They will learn about scientific theories and use their knowledge to investigate, plan and predict.  |
| **Knowledge:**  | To explore gravity To consider what will happen | To be able to identify different forces acting on objectsTo Newton and gravity.Explore Galileo’s ‘Tower of Pisa’  | To be able to identify and explain the different forces acting on objects.To explain Newton’s role in discovering gravity.Understand the forces reacted to Galileo’s ‘Tower of Pisa’ |
| **Key Skills:**  | Observing MeasuringIdentifying Investigating  | MeasuringDesigning  | Maker conclusions.  |
| **Curricular Links** | History, speaking and listening, geography  |