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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 objects  To 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  Measuring  Identifying  Investigating | Measuring  Designing | Maker conclusions. |
| **Curricular Links** | | History, speaking and listening, geography | | |