



I Can Statement - Year 5

Forces

Unit/Topic Overview	Pre-taught Vocabulary	
This topic introduces pushes and pulls called forces, exploring how they make things move, slow down, or change shape. We will discover how gravity acts as a pulling force, drawing objects down toward the center of the Earth and giving them weight. By experimenting with water and air resistance, we will see how these forces oppose motion and learn how streamlining helps objects move smoothly. Finally, you will explore how simple machines like levers, pulleys, and gears allow a smaller force to have a much greater effect.	Force	Gravity
	Friction	Air resistance
	Water resistance	Streamlining
	Lever	Weight
	Mass	Newton

RAG Rating:		Start	End
1.	I can explain that unsupported objects fall towards the Earth because of the force of gravity.		
2.	I can identify gravity as a force that acts between the Earth and objects.		
3.	I can recognise that some mechanisms, including levers, pulleys, and gears, allow a smaller force to have a greater effect.		
4.	I can describe how levers, pulleys, and gears work in simple machines.		
5.	I can identify and explain the effects of air resistance on moving objects.		
6.	I can identify and explain the effects of water resistance on objects moving through water.		
7.	I can explain the role of friction between surfaces and how it can slow down or stop movement.		
8.	I can compare how different surfaces affect the amount of friction produced.		
9.	I can plan and carry out fair tests to investigate forces (e.g., measuring how surface type affects movement).		
10.	I can use appropriate scientific vocabulary (e.g., gravity, friction, resistance, force) to explain their understanding.		