What I need to know: Y5 Science - Forces

We nurture the curiosity to learn, the courage to lead and the compassion to care.

Name:				Class:			
For this half term we are learning all around us, and we can recognize, ch			orces have on us a	nd t	he wor	ld	
What I will know				✓	Start	End	
How to explain the force of Gravity and how it affects everything on Earth.				0	0		
How gravity relates to Sir Isaac Newton's Laws of Motion.				0	0		
What Newton's Law of Inertia is.					0	0	
That for every action, there is an opposite and equal reaction.					0	0	
How to conduct an investigation to measure gravitational forces on objects.					0	0	
How to explain the force of friction and how friction differs on different surfaces.					0	0	
How friction can affect the speed at which something travels.					0	0	
How to conduct an investigation to measure the effects of friction on moving objects.					0	0	
How to explain the term air resistance and how it affects objects.					0	0	
How to conduct investigations to test the effects of air resistance on objects.					0	0	
What is meant by water resistance and how this force can affect objects.					0	0	
How to conduct an investigation into water resistance using a range of items moving through					0	0	
water and other types of liquids.							
Skills I may use							
Remember: name, identify, describe Analyse: investigate, infer, select, cla				rify			
Understand: predict, recall, interpret Create: plan, design, construct							
Apply: use, show, relate, demonstrate Evaluate: compare, assess, judge							
Vocabulary I need to know							
1. I have heard the word, but I don't know what it means	2. I understand what the word means		3. I can explain what the word means and give other examples				
Gravity, force, action, reaction, mass, weight, Laws of Motion, Inertia, friction, speed, air resistance Newton, Galileo, water resistance, up-thrust, liquids, density, materials, investigation, comparison measurements, conclusion.				ce, Sir Isaac			
Opportunities to support English and r	naths						
Using mathematical tables and gra Literacy – further research on the	-	•	_	stand	ding.		
<u> </u>							
Enrichment							

Respect Responsibility Reflection Resilience

British Science Week (10-19th March 2023)