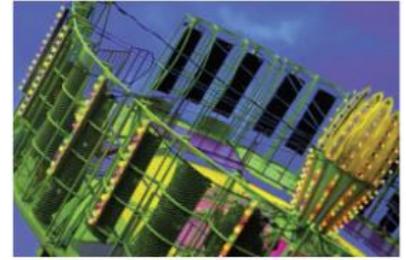
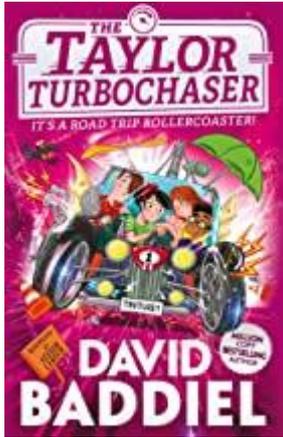


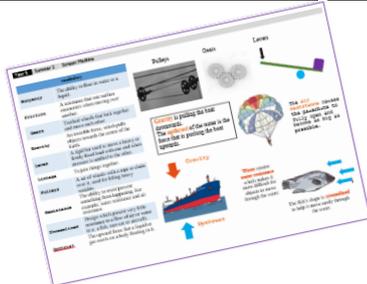


Kader Academy – Scream Machine



Medium -Term Planning

Year 5	
The Big Question	How do forces impact the world we live in?
Enquiry Driver (Topic Focus)	Scream Machine - science
Enquiry Enhancer	Science, DT and Art
Main Enquiry Theme	Forces (air resistance, buoyancy, friction). Reinforce gravity.
Main Text	<p>The Taylor Turbochaser</p> 
Main Writing Genre	<p>Film Narrative – Taking Flight (Literacy Shed)</p>
Key Knowledge and Skills	To know the difference between air resistance and water resistance.

(driver)	<p>To understand the effect of friction between moving surfaces. Recognise mechanisms, how they work and the difference between them.</p> <p>I can build a working model that includes levers, pulleys and gears.</p>
Key Knowledge and Skills (enhancer)	<p>To understand how buoyancy works – how a ship floats. To understand gravity and how gravity overcomes air resistance. To understand what friction is and what causes friction. To understand how levers, pulleys and gears are used in real life.</p>
Engage/Experts/Experiences	<p>School trip to Valley Gardens and Transporter Bridge. Children work in groups to build own rollercoaster ride / marble run.</p>
Subsidiary Enquiries	<p>Why do objects float and sink? Why do things move easier and faster on various surfaces? Why does the size and shape of an object matter when moving through air and water? Where are levers, pulleys and gears used?</p>
Reflection of Learning	<p>Children add what they have learnt to their thought cloud (using a different colour). End of topic quiz.</p>
Potential Sticky Knowledge	<p>To understand that pulleys, levers and gears are used in many places, everyday.</p>
Knowledge Mat	

Additional Links	British Values	Outdoor Learning	Community
	Covered separately from topic: Democracy The rule of law Individual liberty Mutual respect Tolerance of those of different faiths and beliefs	Conducting experiments outside in our Alchemy Island (wildlife area)	Through RE : Christianity, Sikhism, Islam, Buddhism, Hinduism
	Citizenship	Global Neighbours	Home Learning
	Monday whole school assembly. Friday KS2 assembly, Newsround, reflection time.		Knowledge organiser. Science Data Handling.