

## Science of Rollercoasters

Workshop	Science of Rollercoasters
Key Stage	Key Stage 2 + 3
Recommended Age Group	8-13
PoS	Physics, Design and Technology
Workshop Description	Discover and investigate how gravity, friction and weight can affect the speed and distance of Rollercoasters. Pupils will work in groups to design and build their own LEGO model Rollercoaster.
Duration	45 Minutes
Equipment	LEGO Technic
Capacity	30 students
Lesson Objectives	<ul style="list-style-type: none"> <li>✓ Understanding how gravity, friction and mass can affect travel, students will collaboratively design, make and test their rollercoaster evaluating its performance to improve design</li> <li>✓ Students will demonstrate team work and communication skills to complete the task</li> <li>✓ Students will design, build and evaluate their designs.</li> </ul>

