

Workshop	Go-Cart
Key Stage	Key stage 2
Recommended Age Group	8 to 11
Programme of Study	Science, Technology, Engineering, Maths
Workshop Description	<p>Let's build a go-cart! What is needed for a go-cart to move and turn? Identify a wheel and axle as a simple machine and where friction might be found. Students will investigate:</p> <ul style="list-style-type: none"> Wheels and Axles – Steering Single, fixed and separate axles Standard units of measure Friction might be found Predict outcomes of various trials
Duration	45 minutes
Equipment	LEGO Education Simple Machines sets
Capacity	30 students per session
Lesson objectives	<p>Science:</p> <ul style="list-style-type: none"> Motion and Stability - Forces and Interactions Cause and effect - Mechanism and explanation Systems and system models Stability and change <p>Design & Technology:</p> <ul style="list-style-type: none"> Assembling Components Evaluating Game Design <p>Vocabulary:</p> <ul style="list-style-type: none"> Friction Axels Steer and Skid