

Workshop	Spinning Tops
Key Stage	Key stage 1
Recommended Age Group	5 to 7
Programme of Study	Science , Design and Technology
Workshop Description	Exploring the effects of gearing, and balanced and unbalanced forces on the movement of an object. Can you build a device that can make a spinning top spin? What changes can be made to make it spin for longer?
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"> • Energy • Fair testing • Measuring • Movement <p>Design and Technology:</p> <ul style="list-style-type: none"> • Combining materials • Evaluating • Game design • Gears <p>Vocabulary:</p> <ul style="list-style-type: none"> • Gearing up • Speed • Spin • Stable / Unstable