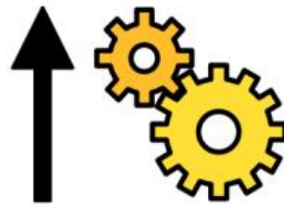




Gear



Drive belt



Gearing up



Gearing down



Mechanical system

Driver Follower



Driver



D&T:

Mechanical Systems

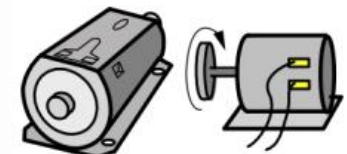
Driver Follower



Follower



Mesh



Motor spindle



pulley



chassis



reversing switch

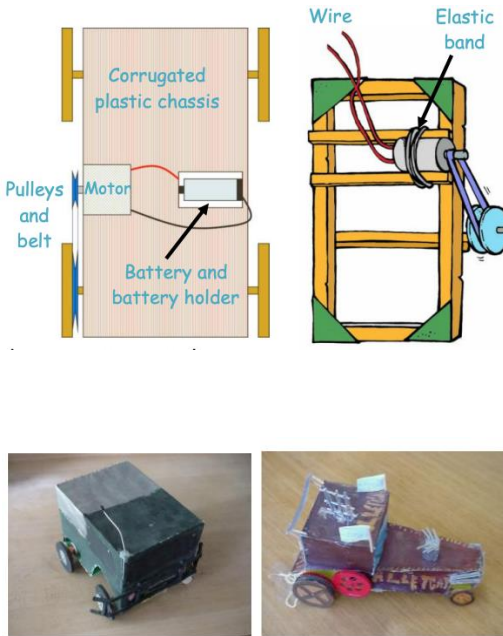
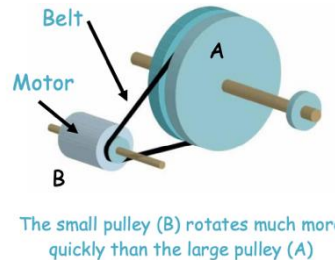


rotation



teeth

D&T – Mechanical Systems: Y6 Topic Vocabulary Mat

Subject Specific Vocabulary		Relevant Pictures	Exciting Books/Websites
mechanical system	A set of related parts or components used to create movement.		https://www.science-sparks.com/how-to-make-a-catapult/ The Kids' Book of Simple Machines – Kelly Doudna How Was That Built? The stories behind awesome structures Written by Roma Agrawal, illustrated by Katie Hickey Mr Shaha's Marvellous Machines Written by Alom Shaha
gear	A wheel with teeth around its circumference		
teeth	The 'bump-like' projections around the outside of a gear that allow gears to join together (mesh).		
mesh	The point where two gears join together and transfer movement.		
pulley	A grooved wheel over which a drive belt can run.		
drive belt	The belt which connects and transfers movement between two pulleys.		Other information
gearing up and down	Changing the rotational speed of a product by the use of pulleys or gears. When a small pulley or gear is used to drive a larger one the rotational speed is reduced and the product has been geared down.		What I've learnt already
motor spindle	The rod on the end of the motor onto which a gear or pulley is attached.		<p>Y2:</p> <ul style="list-style-type: none">Wheels and axles form a mechanism to create movement. <p>Y3:</p> <ul style="list-style-type: none">A pneumatic system is one that uses gasses, and a hydraulic system uses water.A system is a set of related parts or components used to create an outcome.The point about which a lever turns is called a pivot.
driver	The gear or pulley that provides the input movement to the system.		Key Knowledge
follower	The gear or pulley that provides the output movement to the system.		<ul style="list-style-type: none">Gears and pulleys can be used to speed up, slow down or change the direction of movement.Fixed axles must allow the wheels to rotate freely and continuously when a pulley is attached.A frame structure can be reinforced and strengthened with triangular shapes at the corners.To know how to measure and cut different materials, including dowel, accurately and safelyTo know how to implement a review process and understand the reasons for this.