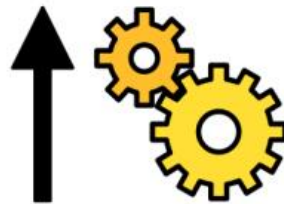




Gear



Drive belt



Gearing up



Gearing down



Mechanical system

Driver Follower



Driver



D&T:

Mechanical Systems

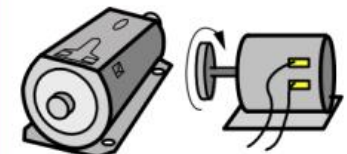
Driver Follower



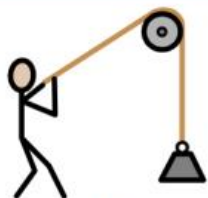
Follower



Mesh



Motor spindle



pulley



chassis



reversing switch

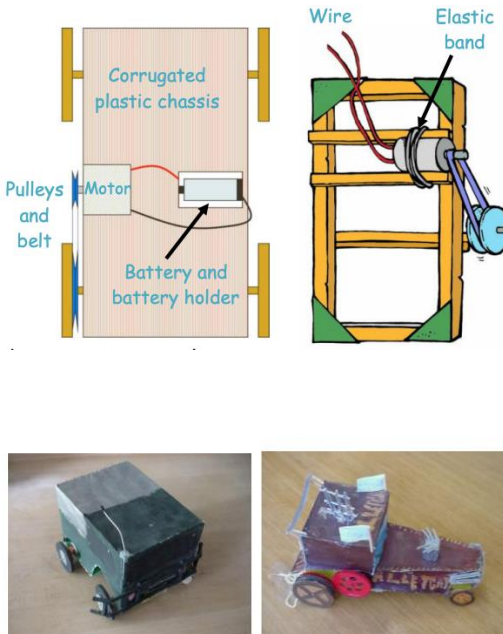
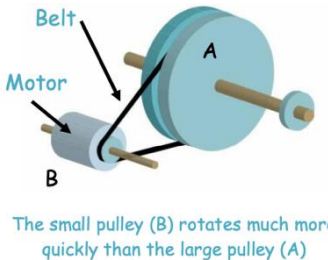


rotation



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		 <p>The small pulley (B) rotates much more quickly than the large pulley (A)</p>	Other information		
teeth	The 'bump-like' projections around the outside of a gear that allow gears to join together (mesh).			What I've learnt already	<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.	
mesh	The point where two gears join together and transfer movement.					Key Knowledge
pulley	A grooved wheel over which a drive belt can run.					
drive belt	The belt which connects and transfers movement between two pulleys.	<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.				
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.		<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.			
motor spindle	The rod on the end of the motor onto which a gear or pulley is attached.			<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.		
driver	The gear or pulley that provides the input 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.	
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.