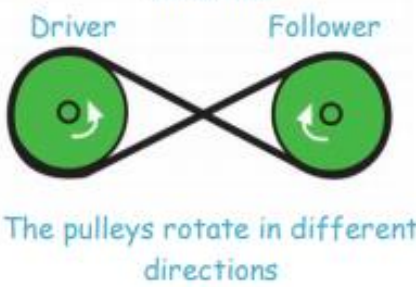
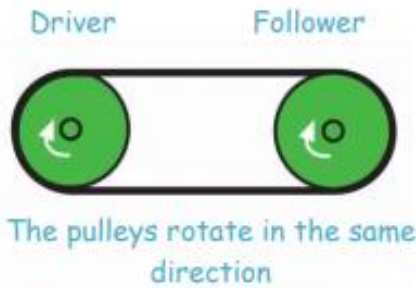
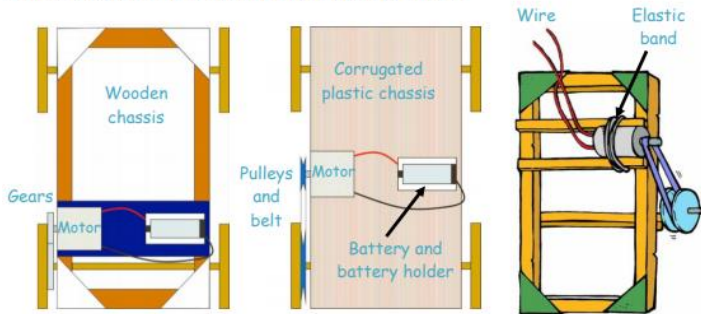


The 6 Simple Machines
Pulley
Lever
Incline Plane
Wedge
Screw
Wheel

Key Concepts
How mechanical systems such as cams or pulleys and gears create movement.
Developing and managing a detailed design brief and specification.
Use annotated sketches, prototypes and exploded diagrams to aid thinking and design.
Select appropriate tools and simple mechanisms to power your creation.
Critically evaluate the quality of the design manufacture and fitness for purpose of their products.

Vocabulary	
Pulley	A grooved wheel over which a drive belt can run.
Gear	A wheel with teeth around its circumference.
Drive belt	The belt, which connects and transfers movement between two pulleys.
Mechanical system	A set of related parts or components used to create movement.
Driver	The gear or pulley that provides the input movement to the system.
Driven	The gear or pulley that provides the output movement to the system.
Mesh	The point where two gears join and transfer movement.
Motor spindle	The rod on the end of the motor onto which a gear or pulley is attached.
axle	An axle is a rod connecting a pair of wheels on a car or other vehicle.
Chassis	A chassis is the framework that a vehicle is built on.
Exploded diagram	A technical drawing of an object, which shows the relationship or order of assembly of various parts.

Building gears or pulleys into children's products



The Six Simple Machines

1. Lever
2. Pulley
3. Inclined plane
4. Wedge
5. Screw
6. Wheel

