

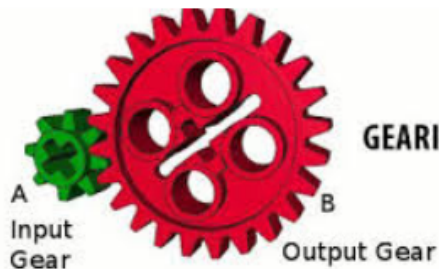


Year 5

DT - Mechanical Systems: Pulleys or Gears

Key vocabulary

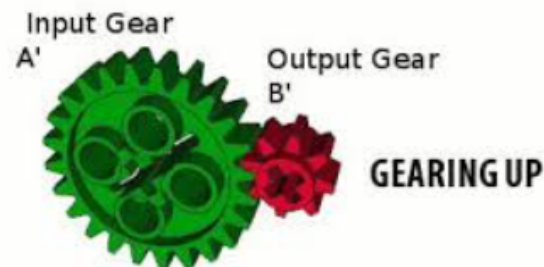
pulley	A grooved wheel over which a drive belt can run
gear	A wheel with teeth around its circumference
drive belt	The belt which connects and transfers movement between two pulleys
gearing up or down	Changing the rotational speed of a product by the use of pulleys or gears.
mechanical system	A set of related parts or components used to create movement
driver	The gear or pulley that provides the input movement to the system
follower	The gear or pulley that provides the output movement to the system
mesh	The point where two gears join together and transfer movement
motor spindle	The rod on the end of the motor onto which a gear or pulley is attached



GEARING DOWN

Gearing Down

When a small pulley or gear is used to drive a larger one the rotational speed is reduced and the product has been



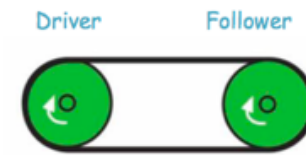
GEARING UP

Gearing Up

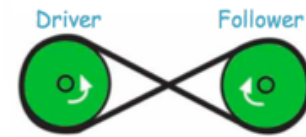
When a large pulley or gear is used to drive a smaller one the rotational speed is increased and the



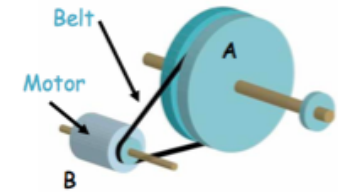
What are gears and pulleys?



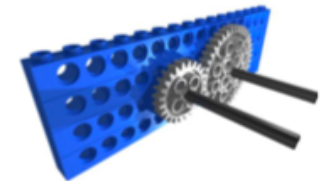
The pulleys rotate in the same direction



The pulleys rotate in different directions



The small pulley (B) rotates much more quickly than the large pulley (A)



How to attach a pulley or gear to your product

