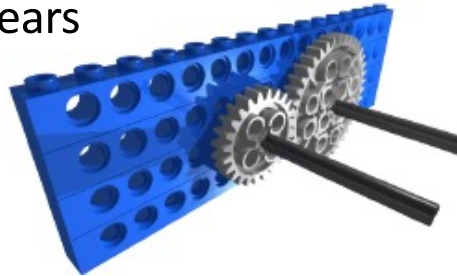


# Year 5 Mechanical systems (Pulleys or gears) Knowledge Mat

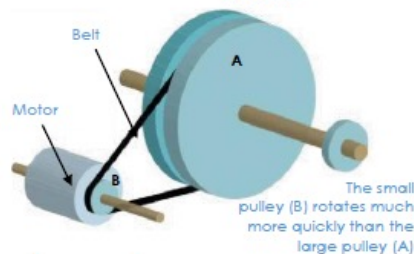
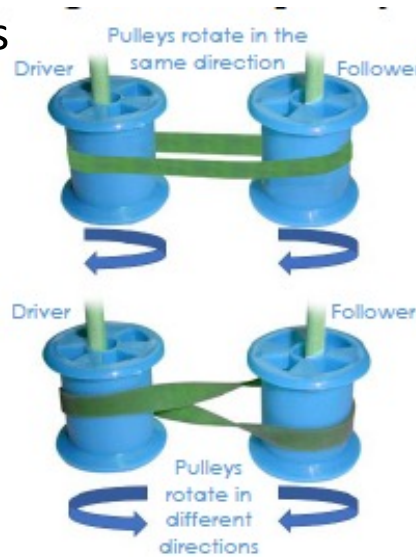
## SUBJECT SPECIFIC VOCABULARY

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. 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.
Mechanical system	A set of related parts of 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.

gears



pulleys



## STICKY VOCABULARY

design/designing	When you plan what something will look like. You will need to think about what materials you will use.
design criteria	The precise checklist that a project must achieve in order to be successful.
make/making	Use a variety of tools and finishing techniques to create a designed product.
evaluating	Once you have finished making your product, you must discuss how well it works in relation to the purpose and design criteria.
purpose	The purpose is why your product has been made. Who would use your product?
product	The item that you are going to design, make and evaluate.