Labelling Forces

Correctly!

What were the names of the forces you had on your vocabulary cards?



This can be any driving force, it may be a push or pull, but it could be an engine which forces an object forward.

This is a force which acts in water, it can slow objects down, reducing the affect of gravity.





This is a force which acts in the air, it can slow objects down when they are moving against it. Or if harnessed could be used to move an object along.



This force acts on objects when they are in contact with a surface, such as the ground. It can be reduced by ensuring both surfaces are smooth.

This force affects every object on Earth. It is a force which pulls everything to the centre of the earth.





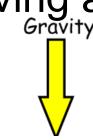
This is an upward force which acts in water, it acts on a object against gravity, and is why certain objects float. What forces are acting on this car which is driving along?

Source is always

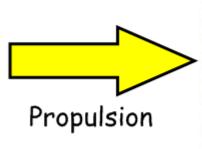
Gravity

This acts against the car which is a car which it was a car which is acts against the car which is

This force is always present. It goes towards the centre of the earth, so will always be pointing from the top of the object

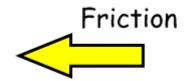


This acts against the car, as it moves forward and is acting against the propulsion.







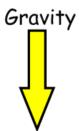


This is the most powerful force, this should be your largest arrow, it should be pointing in the direction the car is going ...

This force is only present where the car is in contact with the floor, it acts against the propulsion.

What forces are acting on this duck floating in the water – it's NOT moving?

This force is always present. It goes towards the centre of the earth, so will always be pointing from the top of the object





Upthrust

What do you notice about these forces?

(The arrows are the same size)

This acts against the force of gravity to allow the duck to float.

Now it's your turn ...

You are going to have different objects which you need to label correctly.

These are things I will be looking for:

- Choose all the correct forces you think are acting on the object.
- Make sure arrows show clearly which force you think is most powerful.
- Your arrows should be pointing in the correct direction (the direction of the force) and should be in the correct place on the diagram.