



Section 1: Key Vocabulary	
Key Word	Definition
Contact Force	A force that acts when you are touching something
Non-contact Force	A force which acts on an object without coming physically contacting it
Friction	The force that resists movement because of contact between surfaces
Drag Force	The force acting on an object moving through air or water that causes it to slow down
Resultant Force	The size of the overall force acting on an object
Up-thrust	The upward force that a liquid or gas exerts on a body floating in it
Weight	The force exerted on the mass of a body by a gravitational field
Moment	The turning effect of a force
Pivot	The point where moments act around
Speed	How fast something is moving
Acceleration	An increase in speed
Velocity	How fast an object moves in a given direction

Section 2: Quick Questions	
What are force diagrams?	Diagrams showing the direction and size of forces on an object
How do we measure forces and in what unit?	You use a newtonmeter and measure them in newtons, N
When do we want to increase friction?	When we want to stop things moving or slow them down e.g. brakes
When do we want to and how do we decrease friction?	When we want to keep things moving, and by using lubricants or making the two surfaces smoother
How does drag change with speed?	As speed increases, so does drag.
What happens when we have balanced forces?	There is no acceleration - objects will continue moving how they are.
What happens when we have unbalanced forces?	There is acceleration or a change in direction.
How do you calculate speed?	Speed = Distance ÷ Time
How do you calculate the moment?	Moment = Distance x Force

Section 3: Helpful Diagrams

Section 4: Video Links