6E FORCES IN ACTION

Glossary air resistance – the force that air exerts on a moving object balanced – when the forces acting on an object are opposite and equal such that the object does not move	Air resistance is a type of friction which slows the fall of a parachute or a piece of paper in air. The bigger the surface area the greater the amount of air resistance.	Friction is the force between two surfaces – for example there is friction between the car tyre and the road or the ski and the snow. Melted snow between the ski and the snow Iubricates the ski and reduces the friction.	 mass – the amount of material in an object measured in grams (g) newtons – the units used to measure forces (N) speed – how fast an object is moving
force – a push, pull, twist or turn – gravity, friction and upthrust are all examples of forces	Water resistance is another type of	A forcemeter marked in Newtons is used to measure A forces of weight (gravity) and upthrust need	stationary – not moving
force diagram – a diagram which represents forces and the directions they are acting with arrows	friction which slows objects moving	the magnitude of a force. to be balanced for a ship to float.	unbalanced – when one force acting on an object is greater than the other forces, the object moves in the direction in which that force is acting
forcemeter – a device used to measure forces (sometimes called a newtonmeter)	through water.		upthrust – a force in water which pushes upwards
friction –is the force between two moving surfaces	This puppy and her master are both pulling in the direction		water resistance – the force that water exerts on a moving object
gravity – the force that causes all objects to fall to the ground	of the arrows in this game of tug o'war.		weight – the force downward on an object caused by gravity
lubrication – a method to reduce the friction between two surfaces		Mass = 400g weight	
The Earth's gravity pulls objects to its centre.	The speed of an abject is the distance travelled in a certain time e.g. kilometerres per second, miles per hour etc.	The forces on this gymnast are balanced , the gymnast is stationary (not moving).	Which way will the ball move?

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