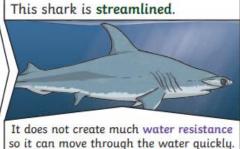
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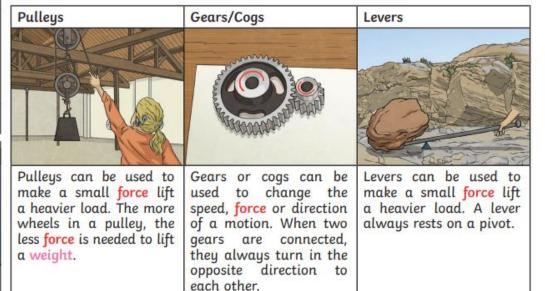
Key Vocabulary A force that acts between two surfaces or friction objects that are moving, or trying to move, across each other. air A type of friction caused by air pushing against any moving object. resistance A type of friction caused by water pushing water against any moving object. resistance An object is buoyant if it floats. This is because the weight of the object is equal to buoyancy the upthrust. When an object is shaped to minimise the streamlined effects of air or water resistance. Mechanisms are simple machines with moving parts that change input forces and movement into a set of useful output forces. mechanism Examples of mechanisms are pulleys, gears and levers. A force that pushes objects up, usually in water. upthrust

It has a pointed nose to cut through the water, and a smooth, low, curved back to allow the water to flow over and around it.





Water resistance and air resistance are forms of friction. Friction is sometimes helpful and sometimes unhelpful. For example, air resistance is helpful as it stops the skydiver hitting the ground at high speed. Friction on a bike chain can make the bike harder to pedal so it is unhelpful.



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forces	Pushes or pulls.
gravity	A pulling force exerted by the Earth (or anything else which has mass).
Earth's gravitational pull	The pull that Earth exerts on an object, pulling it towards Earth's centre. It is the Earth's gravitational pull which keeps us on the ground.
weight	The measure of the force of gravity on an object.
mass	A measure of how much matter (or 'stuff') is inside an object.

