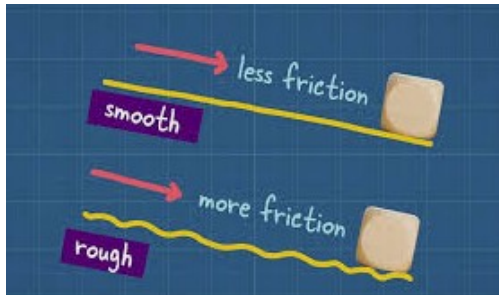


Forces

Friction is a contact force that occurs between two touching surfaces that are either trying to move or are already moving across each other.



Gravity is a pulling force exerted by the Earth (or any object with mass).



Air resistance is a form of friction that occurs between air and an object moving through it. It can also be referred to as 'drag'.

Shapes that are **aerodynamic** cut through the air easily.

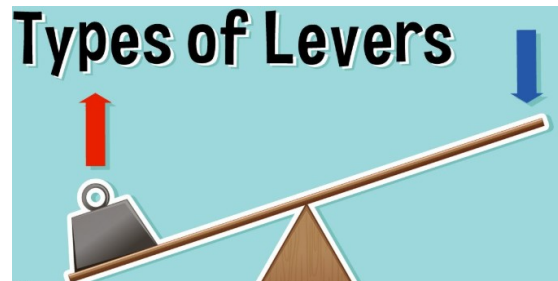


Water resistance is a type of friction that happens when water (or any liquid) pushes against an object moving through it.

Streamlined shapes have a pointed front and a low, curved back to allow them to cut through air or water more efficiently, enabling faster movement.



A **lever** is a mechanism that uses a small force to move a heavier load by pivoting on a fixed point.



Gears are wheels with teeth that lock together and turn each other to transfer motion.

