

KEY VOCABULARY

force

a **push or a pull**

gravity

a force that **pulls objects towards the centre of the earth**

friction

a force caused by **two surfaces touching each other**

air resistance

a kind of friction that **slows objects down when they travel through air**

water resistance

a kind of friction that **slows objects down when they travel through water**

buoyancy

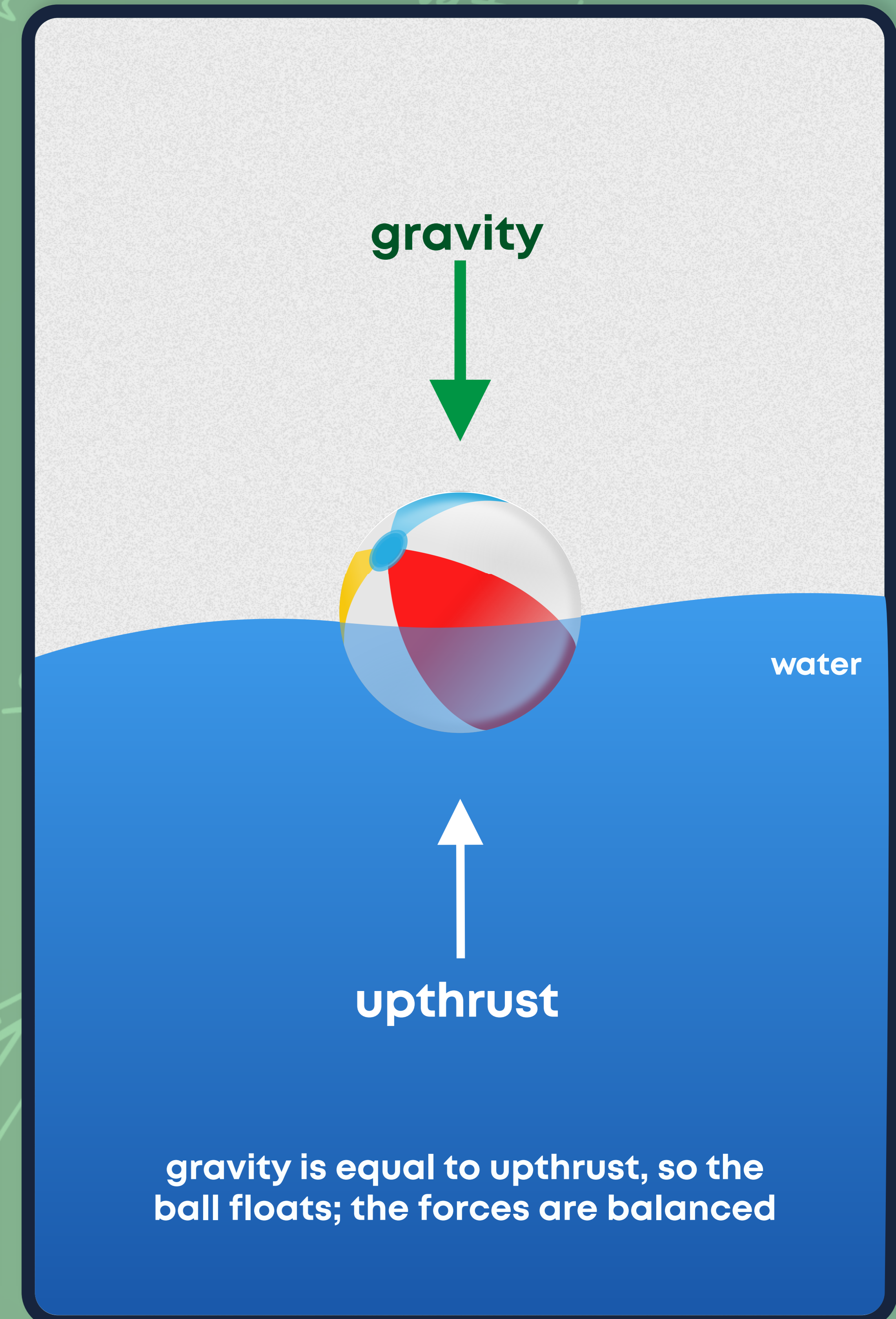
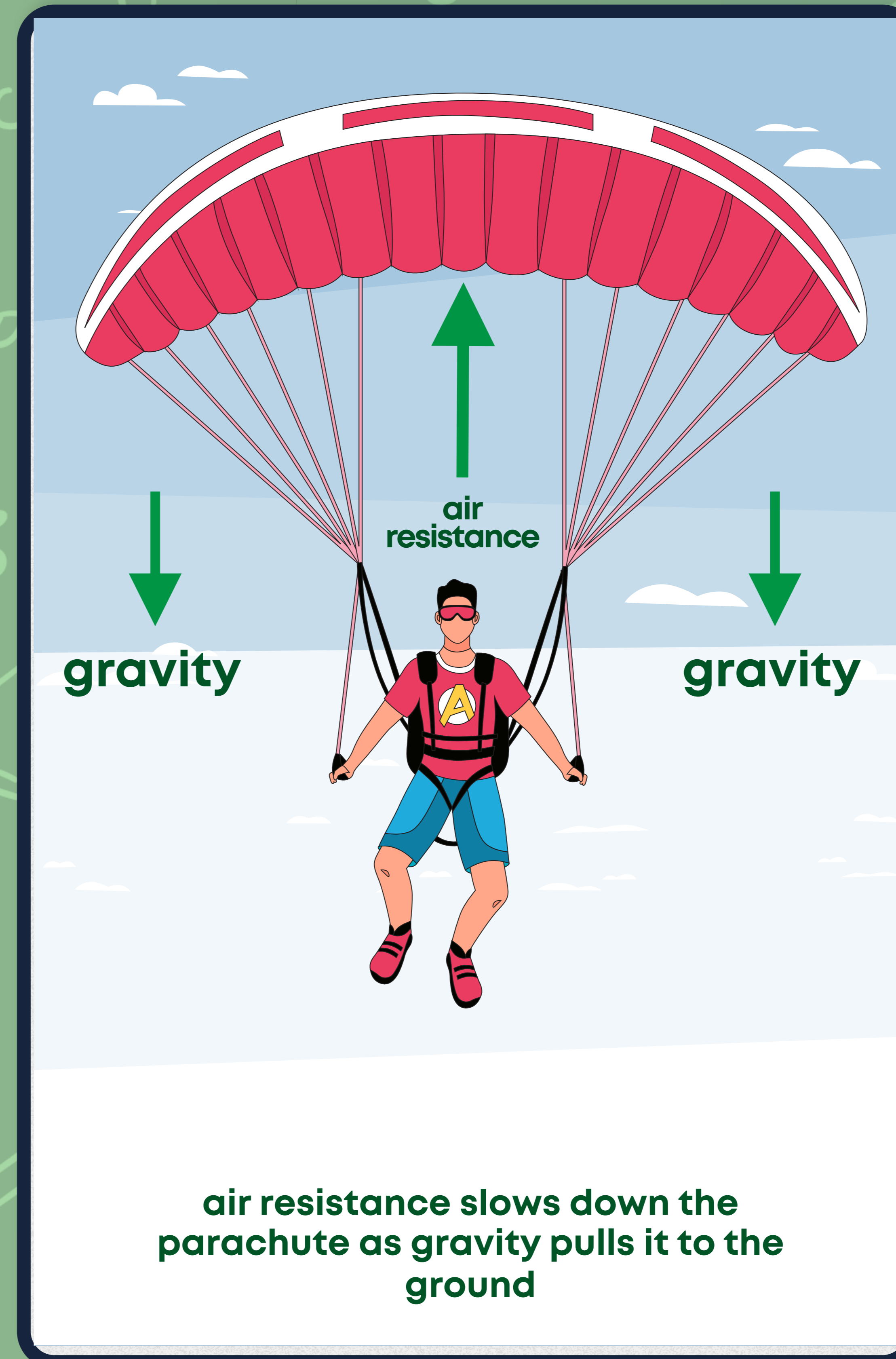
an object's **ability to float**

upthrust

a force that **pushes objects up** in water or air

streamline

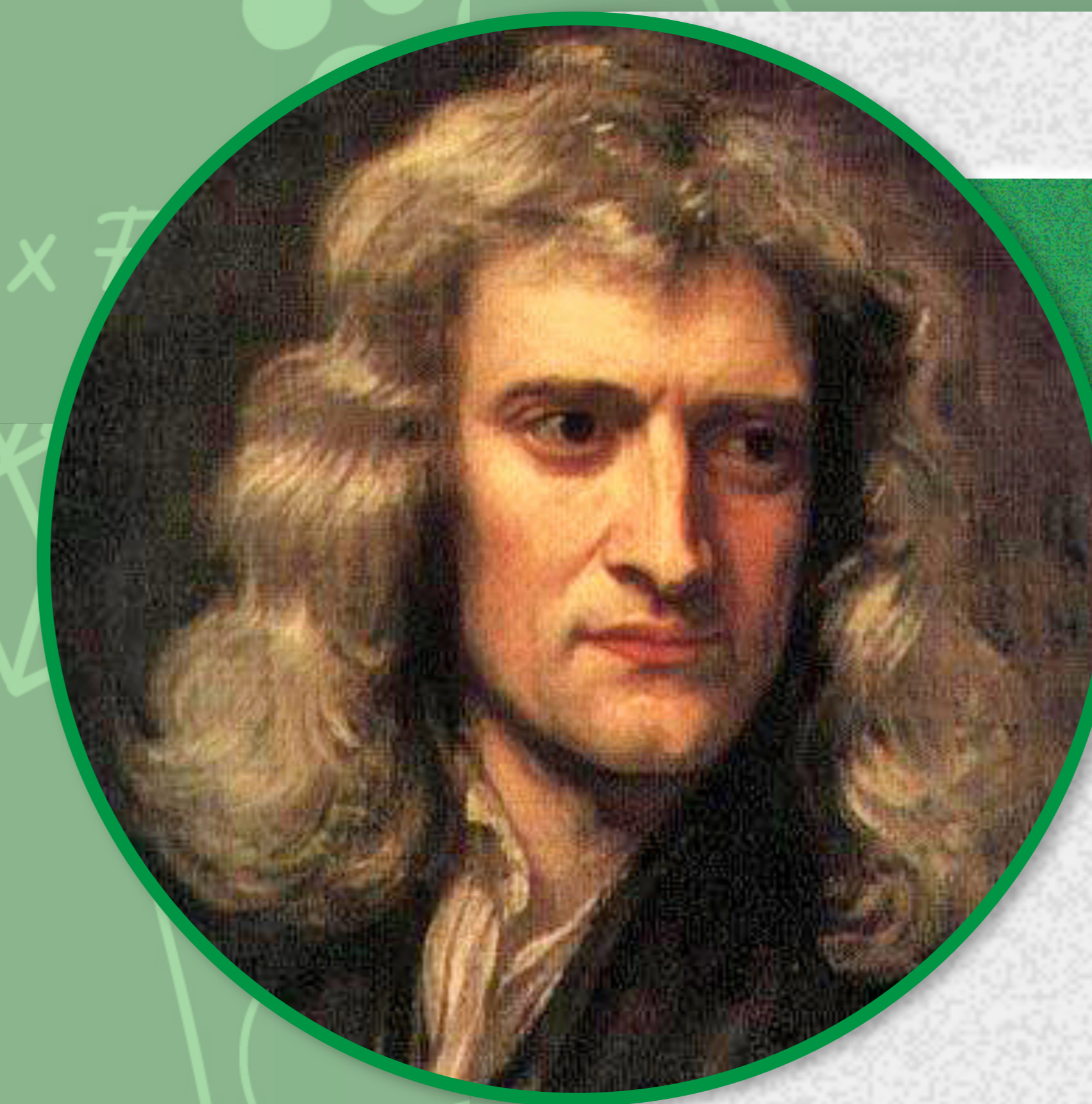
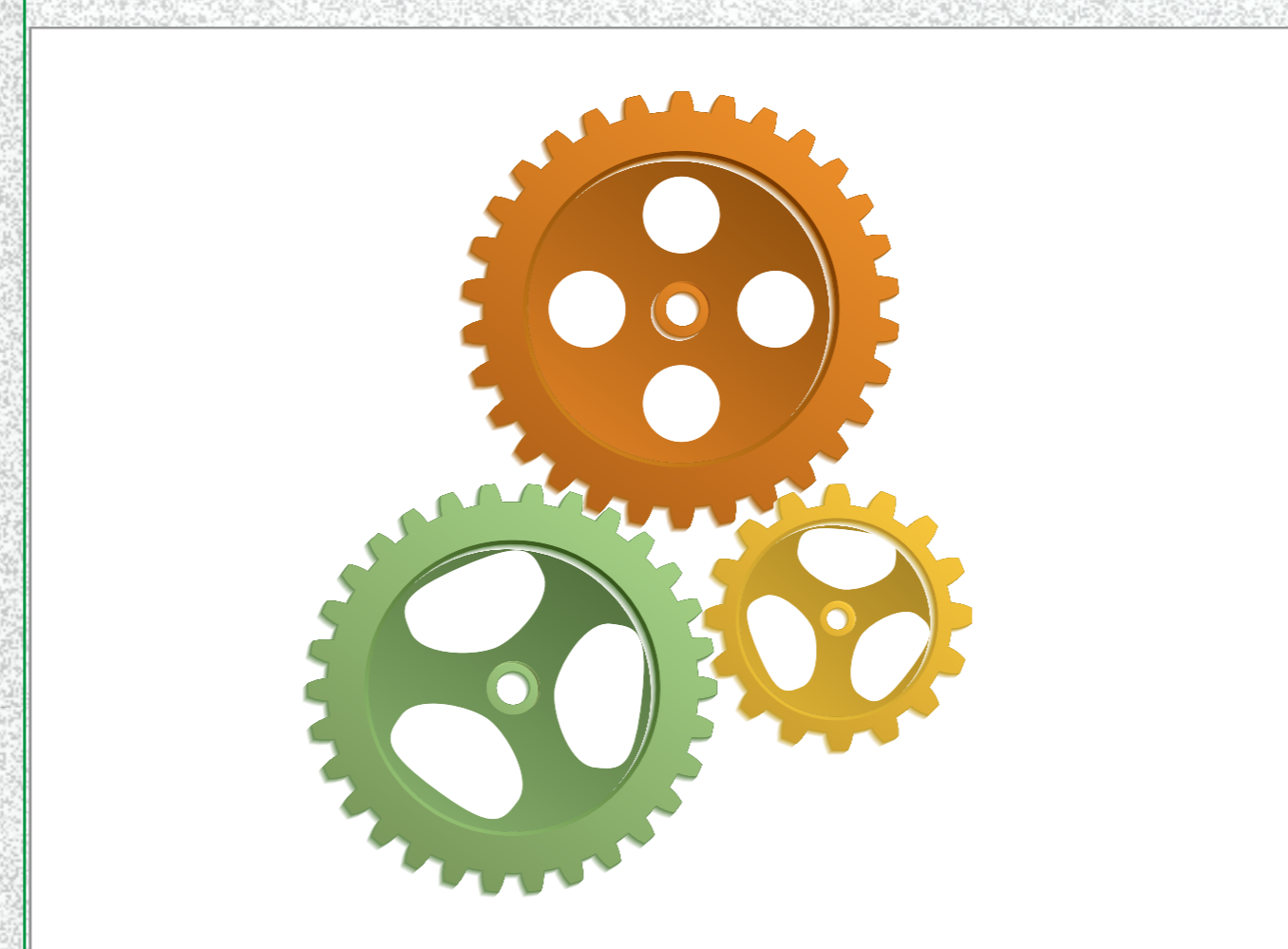
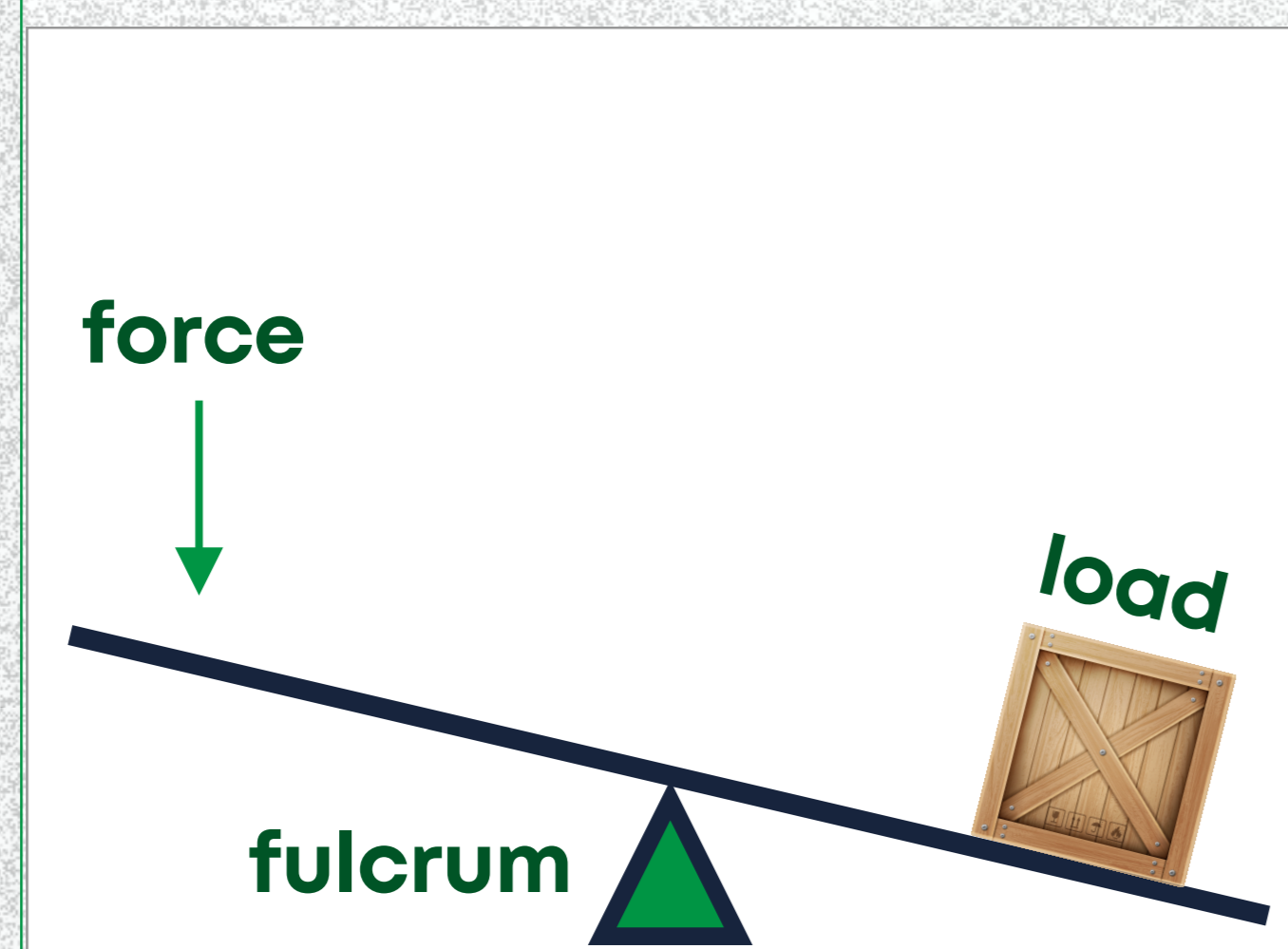
to shape an object in a way that **reduces the effect of air resistance or water resistance**



pulley

lever

gear



**Sir Issac Newton
(1643–1727)**

a scientist and mathematician who studied forces and helped us to understand how gravity works on earth

the scientific study of energy and forces is called physics; physics helps us to understand how the universe behaves