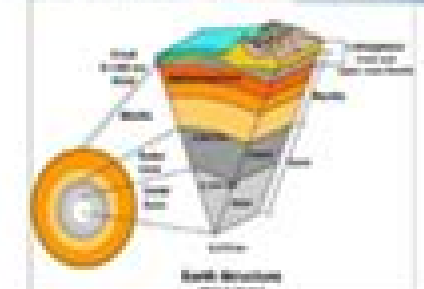


Moments - moment of a force is the turning effect of a force on an object



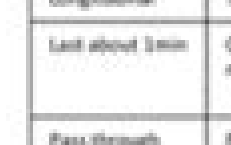
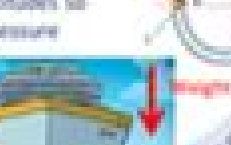
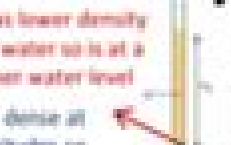
Particles collide and create pressure
Upthrust - upward force on the object due to a fluid, caused by the fluid pressure

The boat displaces the water. The more the object enters the water the more water is displaced = more upthrust



Increasing FORCE or distance = increased MOMENT

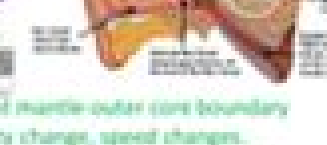
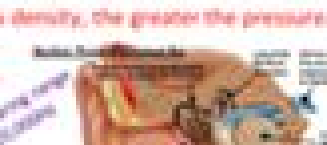
Using a lever (eg spanner) exerts a greater force on the load than the force exerted on the lever (force multiplier)



$(\text{mass of A} \times \text{velocity of A}) = (\text{mass of B} \times \text{velocity of B})$

Dependent on mass, velocity change and impact time

Longer impact time = reduced impact force



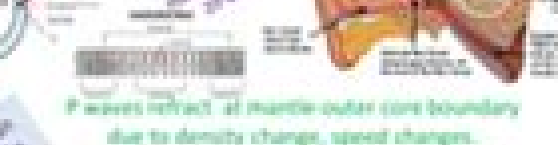
Conserving momentum - in closed systems, the total momentum before a collision is equal to the total momentum after the collision (provided no external factors)



Feature	Reason
Seat belt	Spreads out force and increases impact time reducing force
Helmet	Increase impact time reducing force
Air bags	Spreads out force and increases impact time reducing force
Crumple zones	Increase impact time reducing force
Child car seats	Spreads out the force. Rear facing protects baby against impact
Side impact bars	Increase impact time reducing force
Collapsing steering wheel	Increase impact time reducing force

Physics Paper 2 TRIPLE

The greater a liquid's density, the greater the pressure
Water at same depth is at same pressure

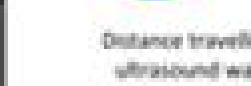
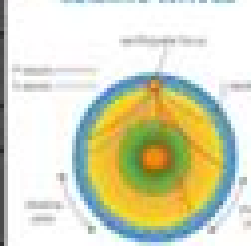


SOUND WAVES - LONGITUDINAL WAVES
Sound waves vibrate the ear drum, which sends signals to the brain
High frequency = high pitch
High amplitude = high volume



P Waves	S Waves	L Waves
Primary waves	Secondary waves	Long waves
Longitudinal	Transverse	
Last about 1min	Occur a few minutes later	Travel much slower than P & S waves
Pass through mantle and outer core	Pass through mantle only	Only pass through the core

SEISMIC WAVES



Reflection of sound from smooth surfaces. To calculate distance/depth: $d = v \times t$



ultrasound frequency is about 20kHz



Distance travelled by wave = $v \times \text{speed of ultrasound waves in body} \times \text{time taken}$

Ultrasound - used for prenatal scans of a foetus, vital organs and muscles.

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Disha Experts



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