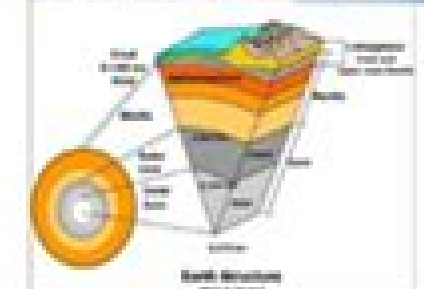


Moments - moment of a force is the turning effect of a force on an object

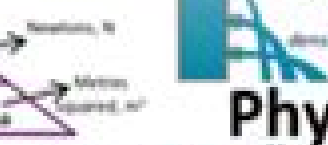


Particles collide and create pressure
Upthrust - upward force on the object due to a fluid, caused by the fluid pressure

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



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



Oil has lower density than water so it is at a higher water level
Air is less dense at higher altitudes so less pressure



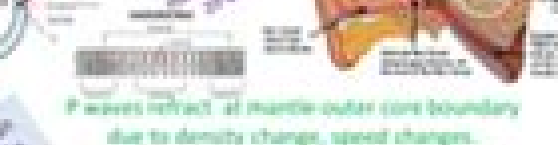
(mass of A x velocity of A) + (mass of B x velocity of B)

Dependent on mass, velocity change and impact time
Longer impact time = reduced impact force



Pressure in liquids increases with depth. Pressure in atmosphere is higher closer to earth's surface = height x pressure x gFL

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



P waves reflect at mantle-outer core boundary due to density change, speed changes.
S waves are transverse so cannot pass through outer core



Physics Paper 2 TRIPLE

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
Helmetts	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 boy against impact
Side impact bars	Increase impact time reducing force
Collapsing steering wheel	Increase impact time reducing force

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



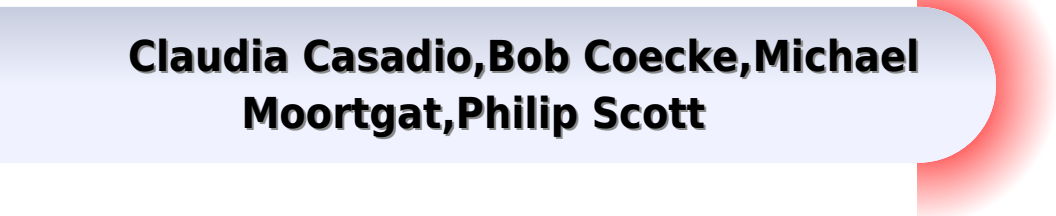
SEISMIC WAVES
Reflection of sound from smooth surfaces. To calculate distance/depth: $d = v \times t$



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

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**Claudia Casadio, Bob Coecke, Michael
Moortgat, Philip Scott**



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