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**4.2: WAVES:
TYPES OF WAVES**

Sound

Infrasound

Ultrasound

Seismic waves
Earth's core
Used to measure the depth of things underwater
Uses sound waves that are within the audible range

Sound with frequencies < 20 Hz
Sound with frequencies > 20,000 Hz
Foetal scanning
Waves travel from emitter and are reflected at boundaries inside body
Reflected waves are detected to form an image of the womb

Human hearing

Sound waves

Sound causes vibrations in eardrum

Require a medium to be transferred through

Transverse

Longitudinal

Particles in the medium vibrate

Oscillations parallel to energy transfer

Oscillations perpendicular to energy transfer

Energy transferred on collisions to pass on vibrations

Peaks and troughs

Frequency of vibrations determines pitch of sound

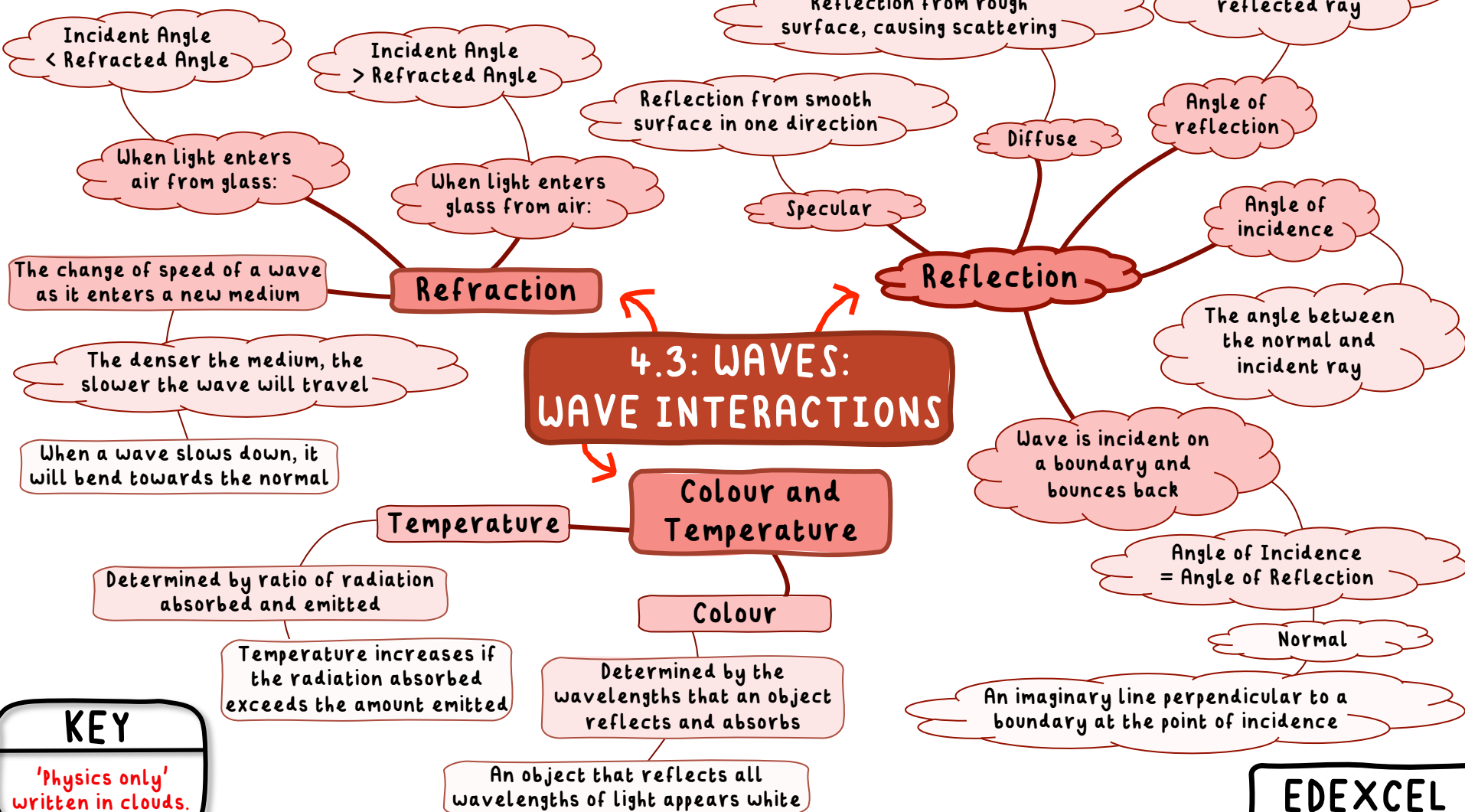
Electromagnetic radiation is a form of transverse wave!

Compressions and Rarefactions

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'Physics only' written in clouds.

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'Physics only'
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