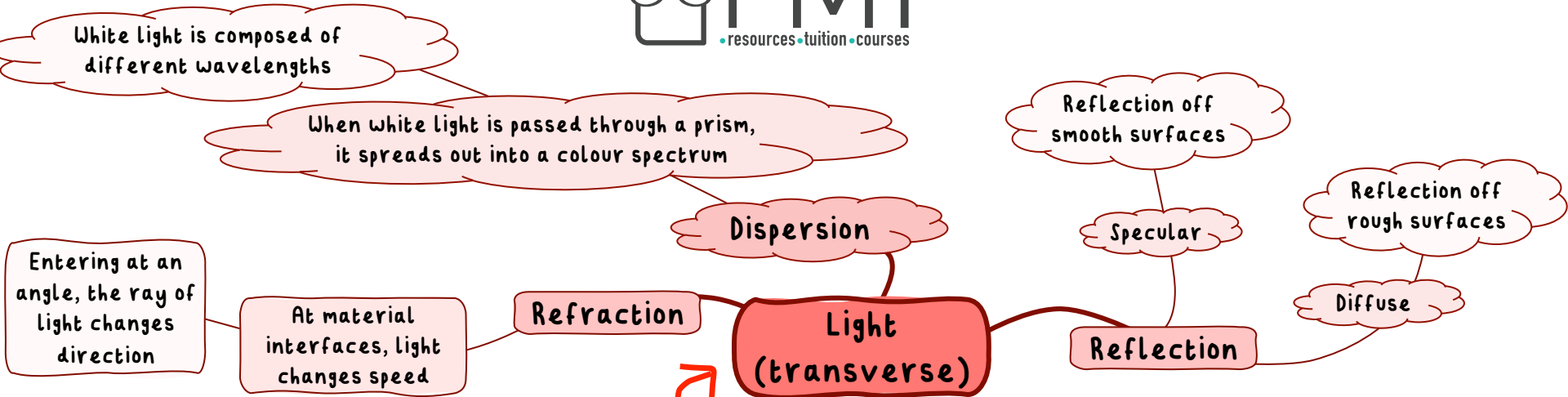
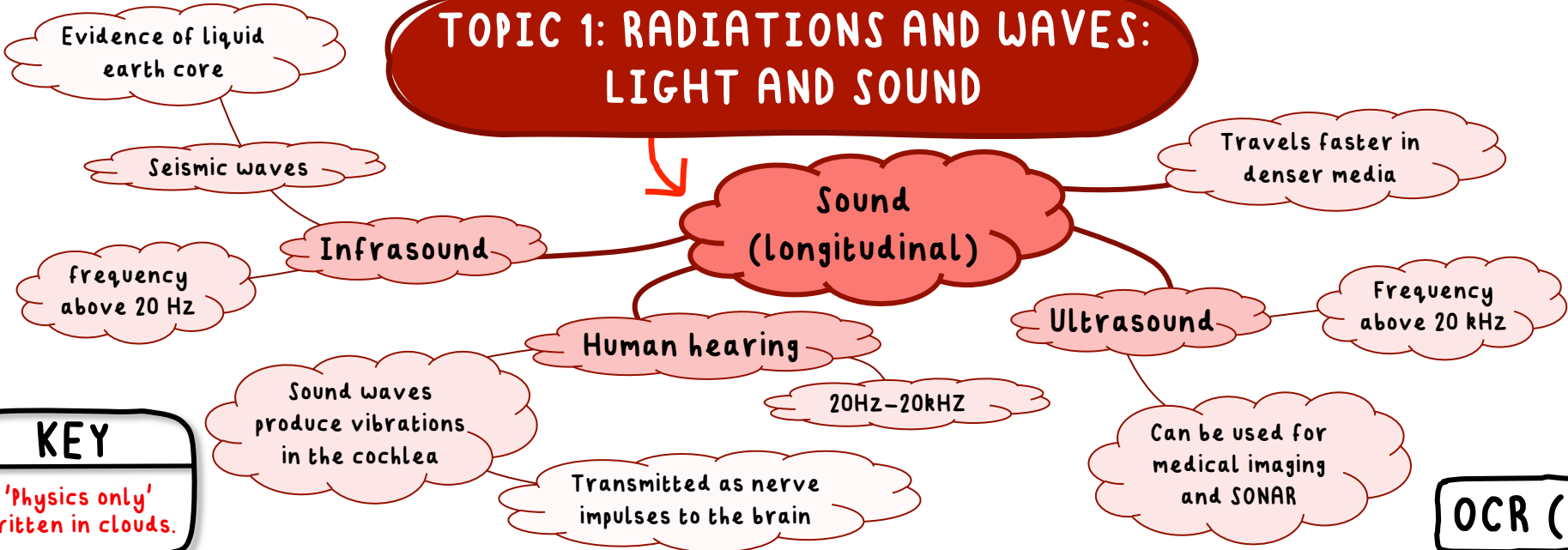


**TOPIC 1: RADIATIONS AND WAVES:
LIGHT AND SOUND**

**Light
(transverse)**



**Sound
(longitudinal)**



KEY
'Physics only'
written in clouds.

OCR (B)



Higher carbon dioxide levels:
burning fossil fuels and
deforestation

Carbon dioxide, methane
and water vapour

Greenhouse Gases

Absorb and reemit
radiation from earth

Radiation is
trapped

Global Warming

**TOPIC 1: RADIATIONS AND WAVES:
CLIMATE CHANGE**

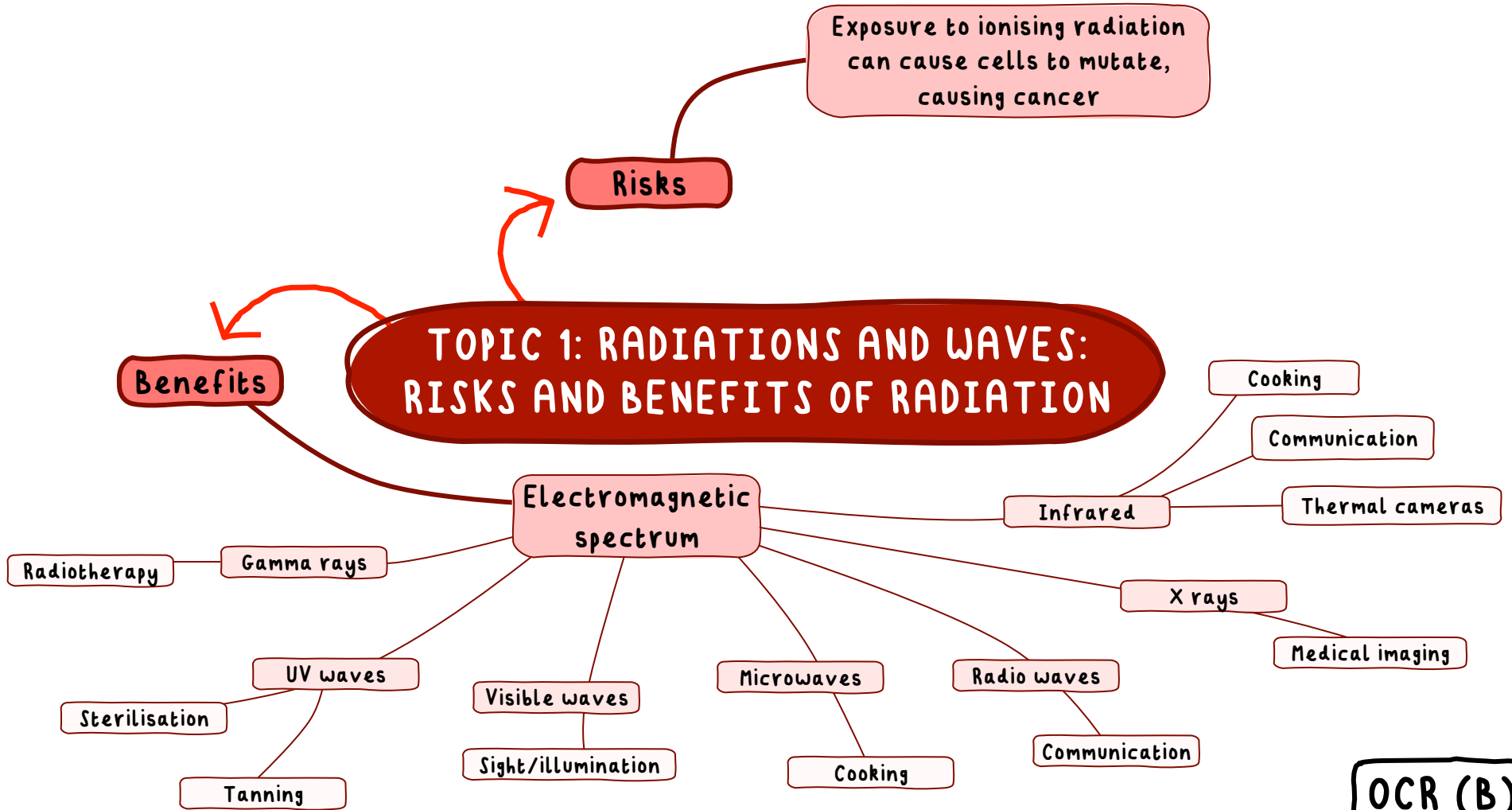
Radiation

Every objects emits
electromagnetic
radiation of a
principle frequency

Principle frequency
increases with
temperature

OCR (B)





OCR (B)



TOPIC 1: RADIATIONS AND WAVES: WAVE BEHAVIOUR

$$v = f\lambda$$

Wavelength

The distance between the same point on two adjacent waves

Amplitude

The Maximum displacement of the wave

Frequency

The number of waves passing a point in 1 second

Transfers energy without transferring matter

Types of Wave

Longitudinal

Oscillations are parallel to wave motion

$$= \frac{1}{2} m v^2$$

Compressions and rarefactions

Transverse

Electric and magnetic fields oscillate at right angles

Have peaks and troughs

Wavelength can be measured from peak to peak or compression to compression

KEY
'Physics only' written in clouds.

OCR (B)