

Y8 - Knowledge organiser – 8.10 - Wave Effects & Wave Properties

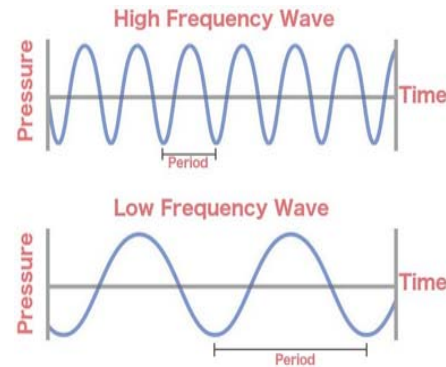


Wave recap 1

- Waves transfer **energy from one place to another**.
- Energy is transferred in the direction of movement of the wave.
- **Transmission:** waves travel through a medium with no absorption or reflection.

Ultrasound 2

- **Ultrasound:** sound waves with high frequencies

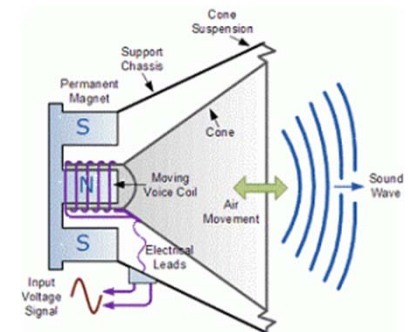


Ultraviolet 3

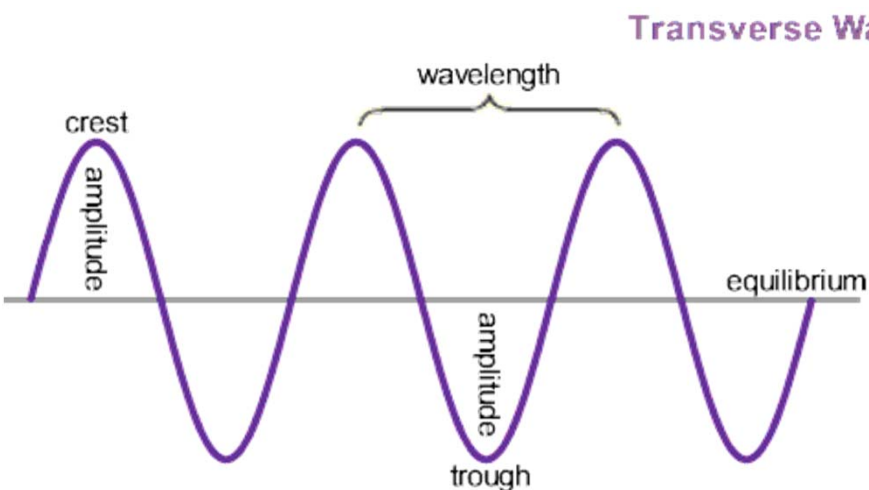
- **Ultraviolet:** light waves with frequencies that human eyes can't detect.
- Can cause damage to cells because they carry more energy.
- **Causes sunburn and blindness**

Microphones/Speakers 4

- **Microphones:** Turns the pressure wave of sound into electrical signals.
- **Speakers:** turns electrical signals into pressure wave of sound.



Wave parts 5



Transverse Waves 6

- The direction of the vibrating particles is perpendicular (right angles) to the direction of the wave.
- **Examples are light and ultraviolet waves.**

Longitudinal Waves 7

- The direction of the vibrating particles is the same as the direction of the wave.
- **Examples are sound waves and earthquake waves.**

K.O. QUIZ 1

1. Name 3 parts of the breathing system.
2. Name 3 parts of the digestive system.
3. Define conduction.
4. What force pushes up in water?
5. How are humans adding to the greenhouse effect?
6. What do waves transfer?
7. Draw a transverse wave.
8. Label your transverse wave.
9. Draw a longitudinal wave.
10. Label your longitudinal wave.