

# Comparing Energy

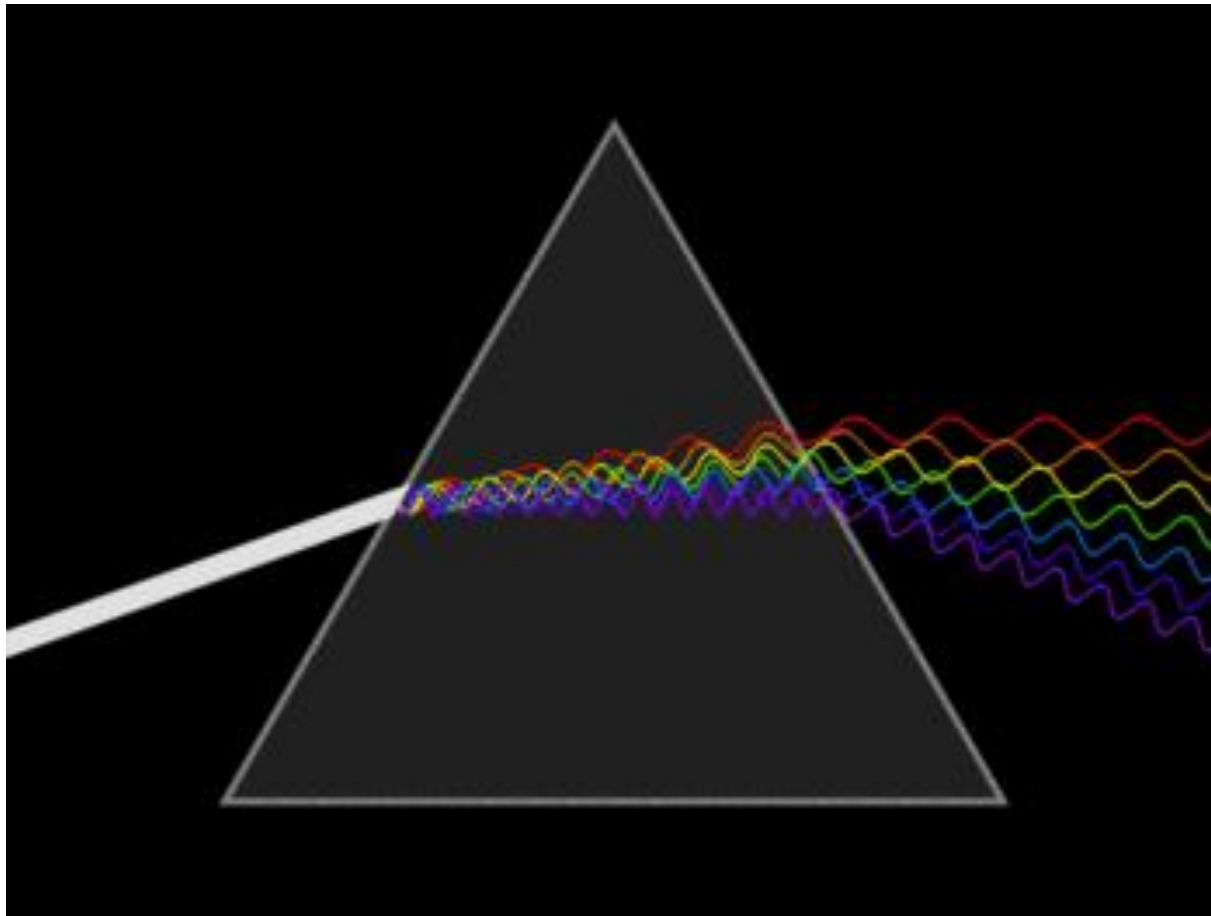
# Mediums **Light** can Travel through

- Light can travel through Space, gas, liquid and solid.



# Type of **Light** Wave

- Light is a transverse wave.



# Speed of **Light** Wave

- Light is the FASTEST energy in the universe... nothing can travel as fast as light.

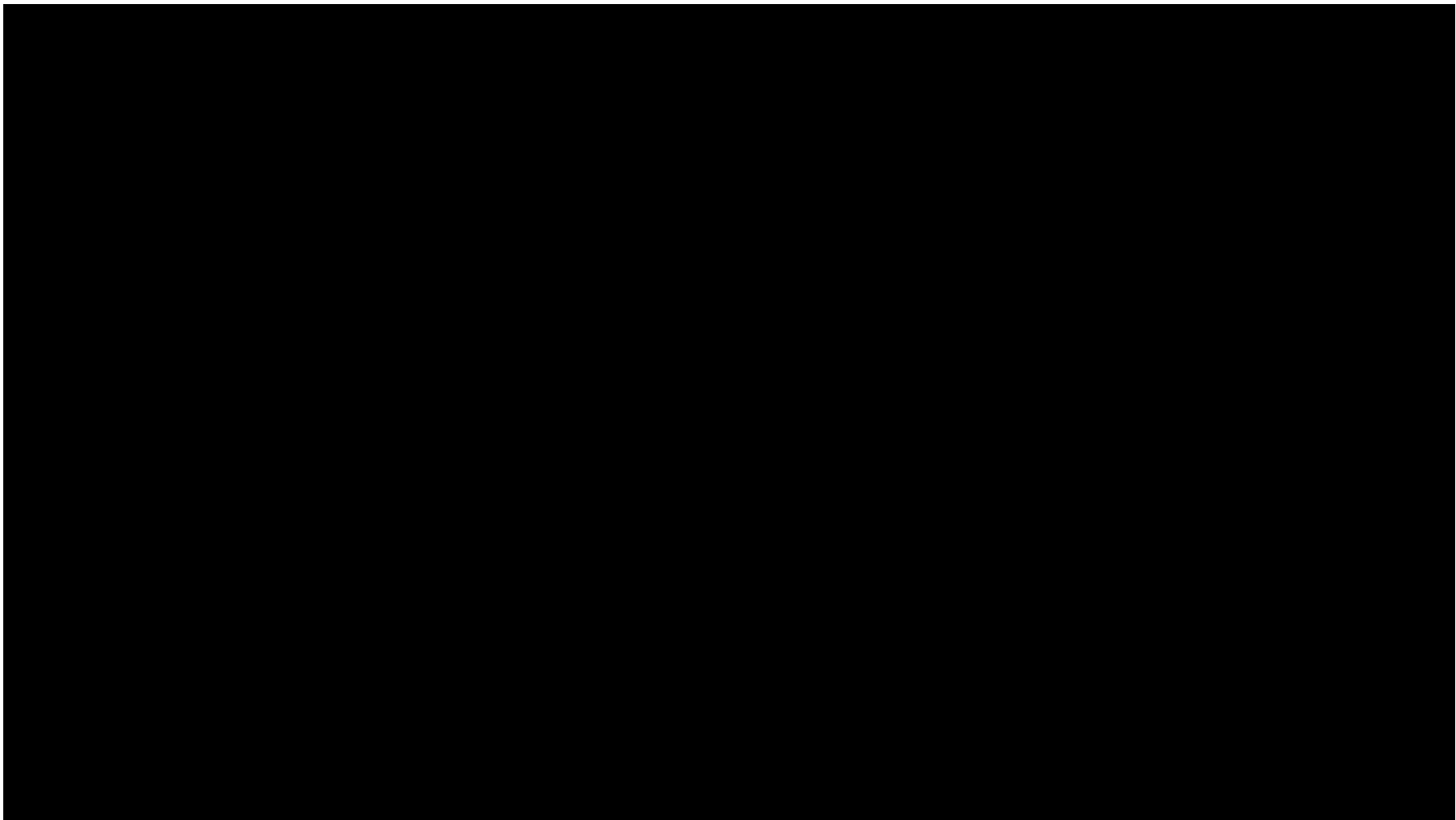


# Mediums **Sound** Can Travel Through

- Sound can travel through Solid, Liquid and Gas
- Sound can not travel through Space

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# Type of **Sound Wave**

- Sound is a longitudinal wave.



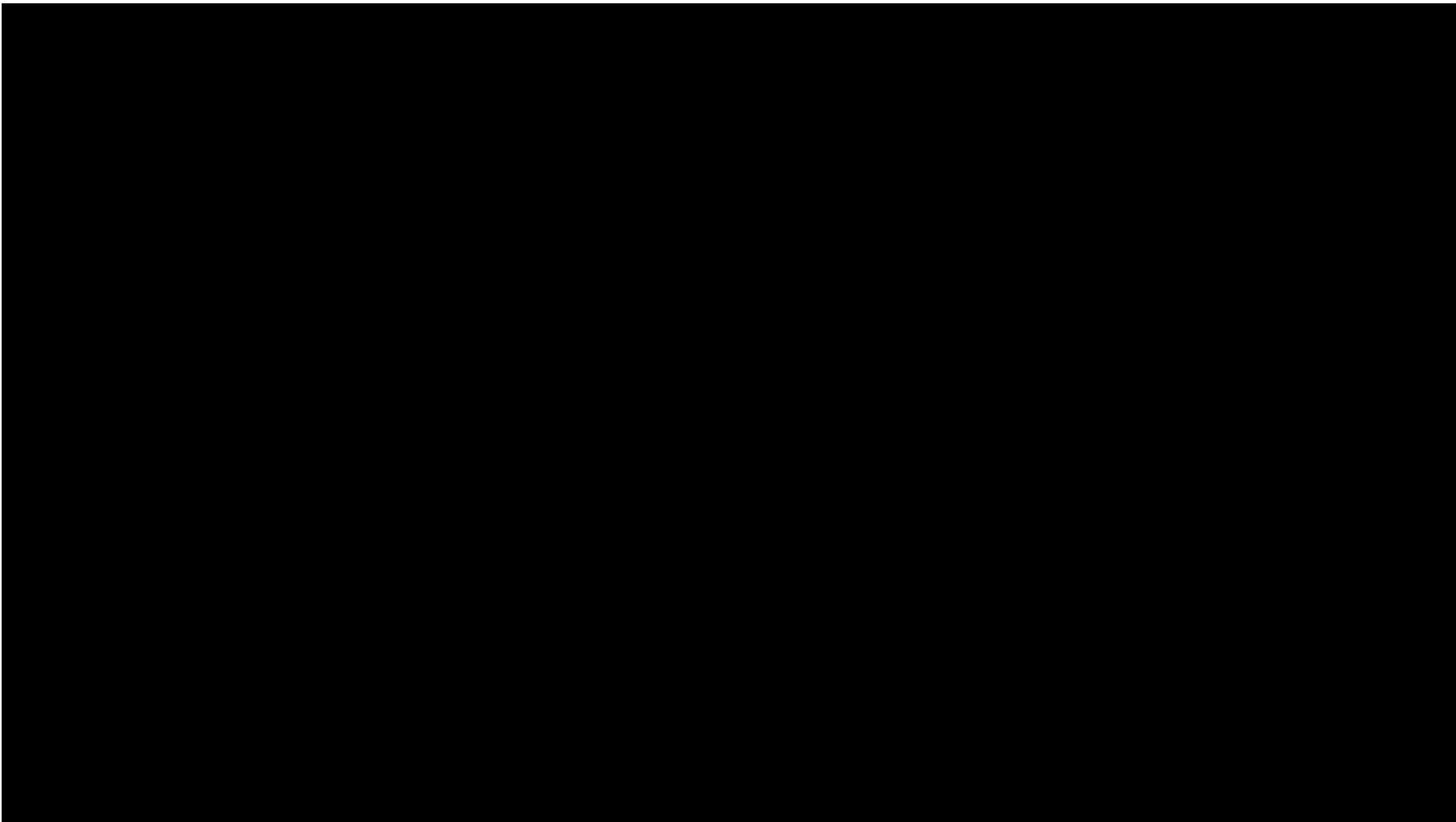




# Speed of **Sound** Waves

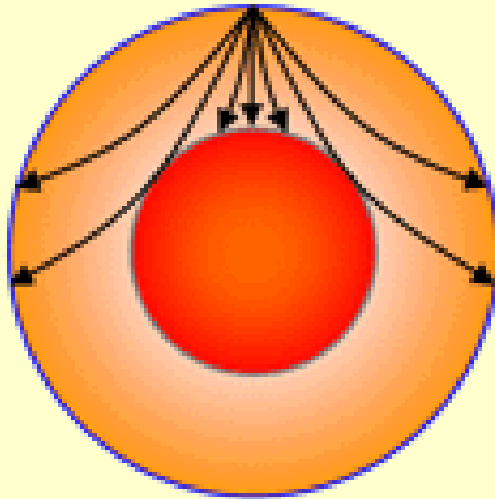
- Sound waves travel Fastest through solid.
- 2<sup>nd</sup> fastest sound wave are in liquids.
- Sound waves travel Slowest through gas.





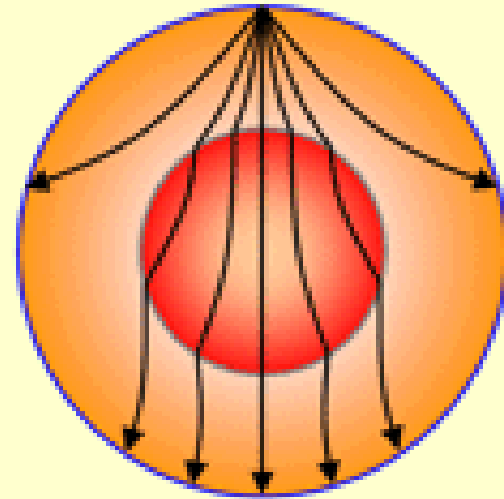
# Mediums **Earthquake** Waves Travel Through

- P- Waves- Solid, Liquid
- S- Waves- Solid... NOT Liquid



## S waves

- transverse
- slow moving
- travel through solids only

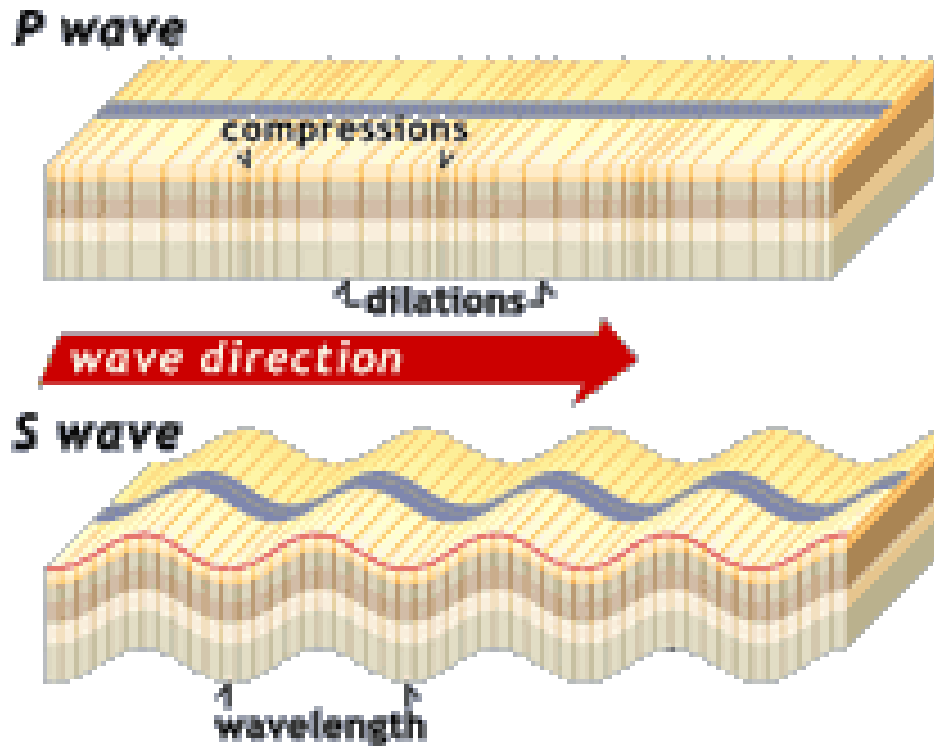


## P waves

- longitudinal
- fast moving
- travel through liquids and solids

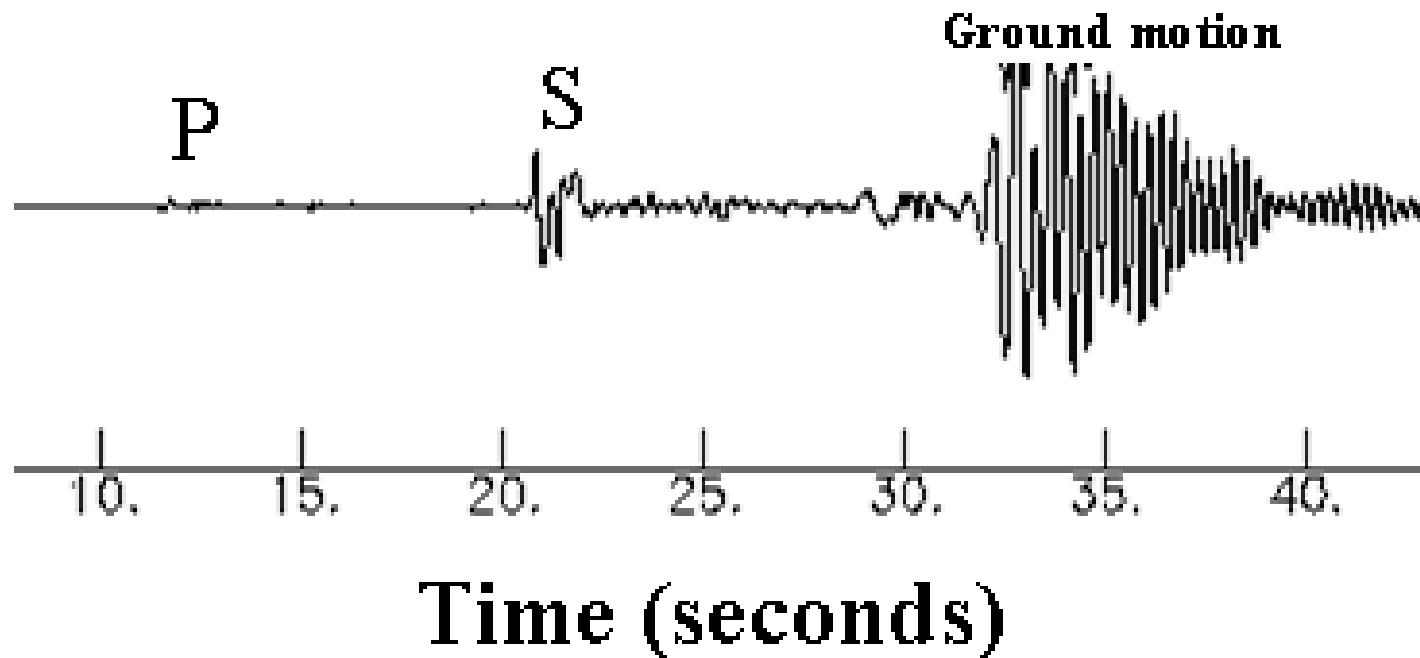
# Type of Earthquake Waves

- P-Waves: Longitudinal
- S-Waves: Transverse



# Speed of Earthquake Waves

- P-Waves: Fastest
- S-Waves: Slower



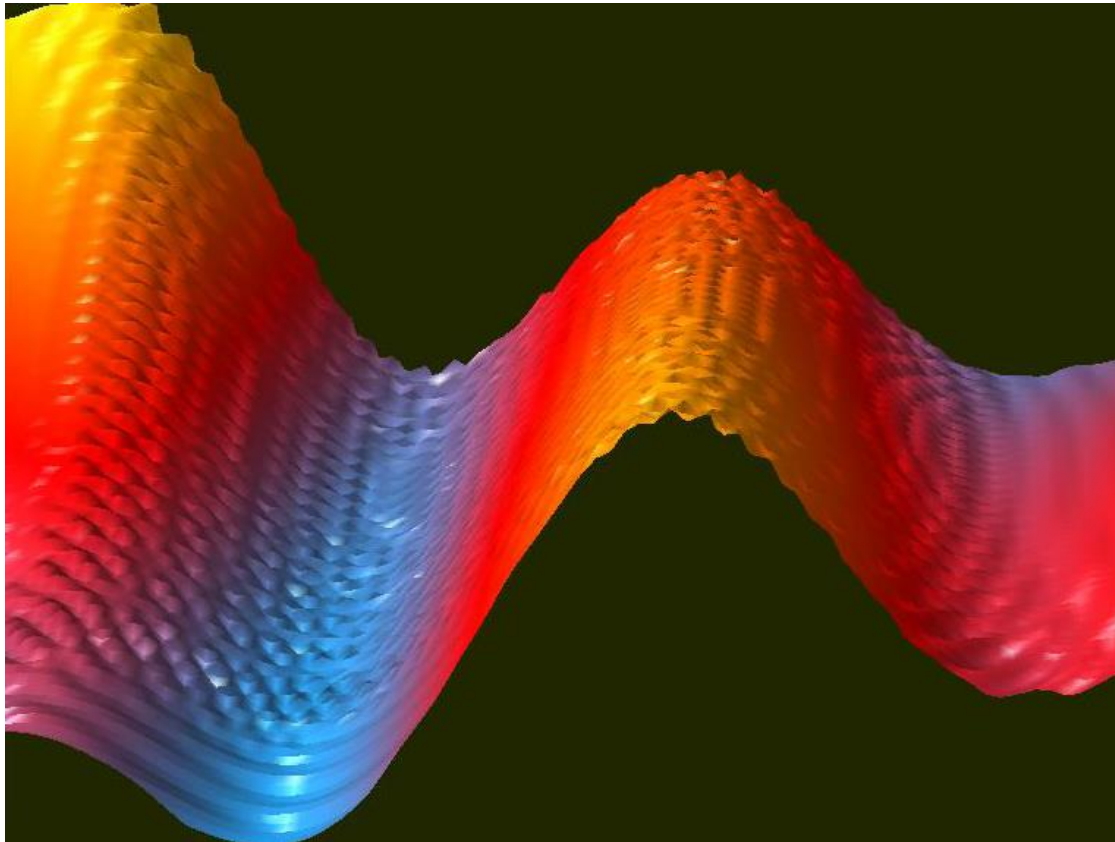
# Mediums **Heat** Waves Travel Through

- Heat waves travel through Solid, Liquid, & Gas and space



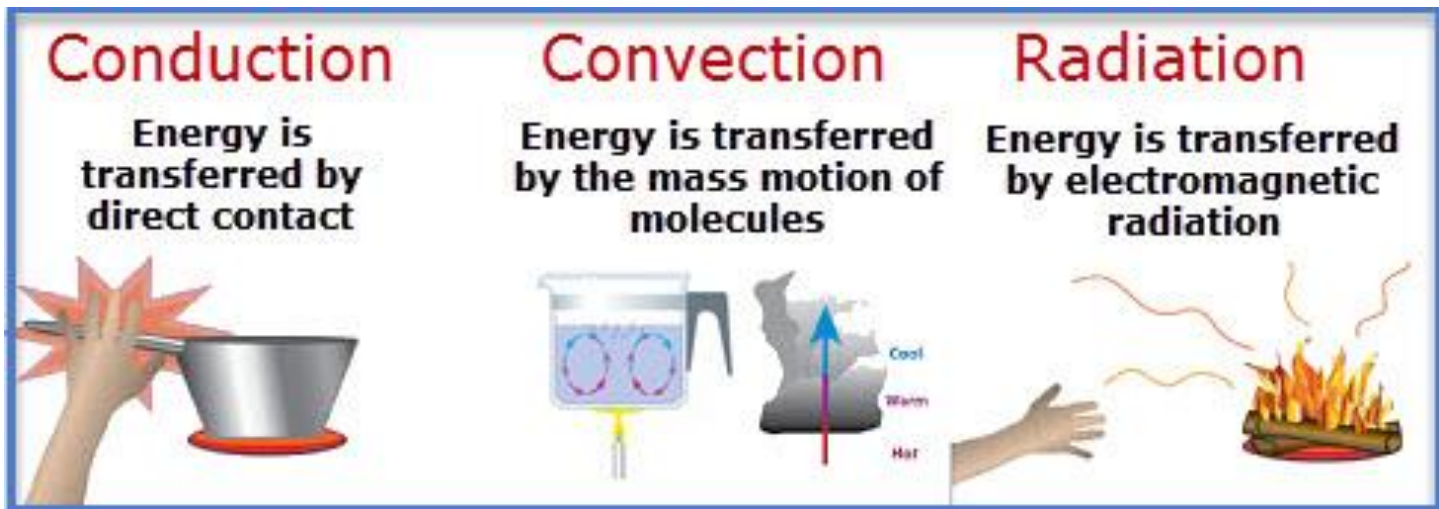
# Type of **Heat Wave**

- Heat waves are transverse

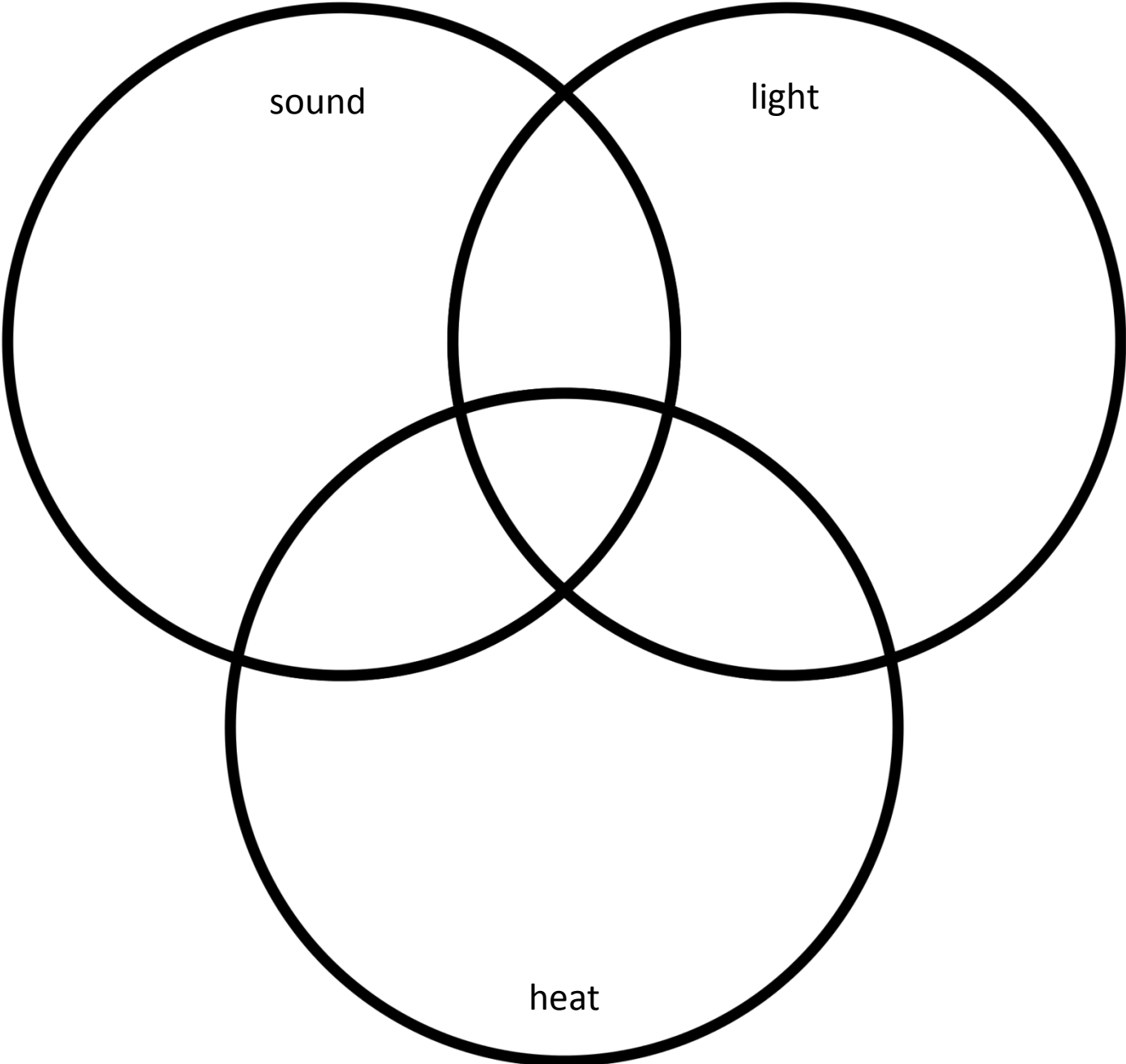


# Speed of Heat Waves

- Varies
- (we will learn more about heat waves next week.)







sound

light

heat