

# Biology 2025 KS4 Summer Term

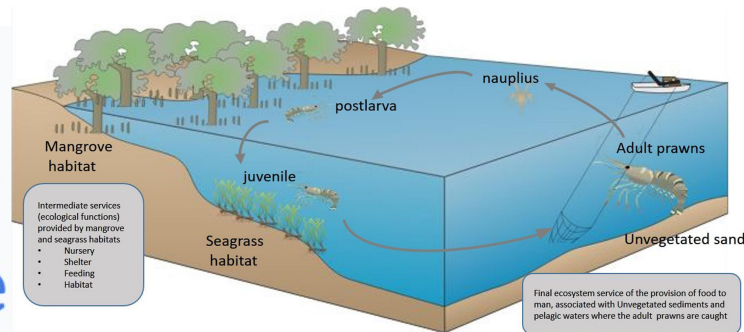
## Key areas for discussion and learning:

- \*How many people live on Earth?
- \*What do living things need to survive?
- \*How has population size changed in the last 100 years?
- \*Threats to ecosystems: climate change and humans.
- \*How can we make realistic changes to support our planet's future.?

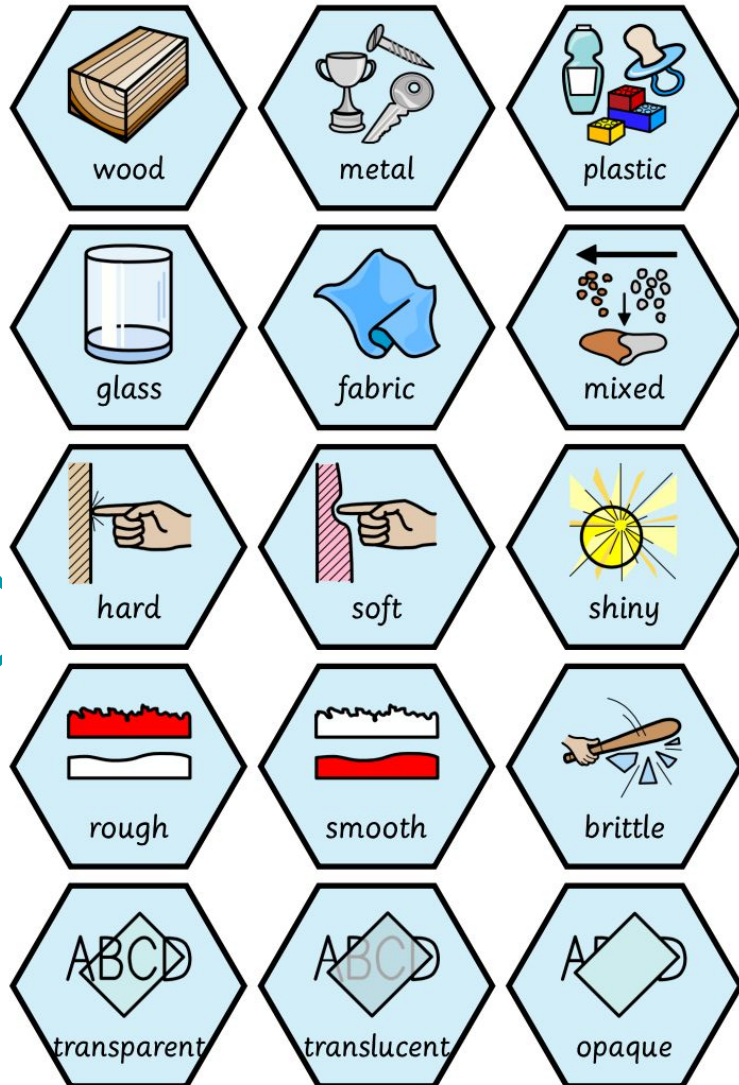
## Topic: Earth Day



consumption  
global-warming  
climate-change  
recycle earth  
reduce  
population  
famine  
pollution



# Chemistry 2025 KS4 Summer Term



## Key Processes

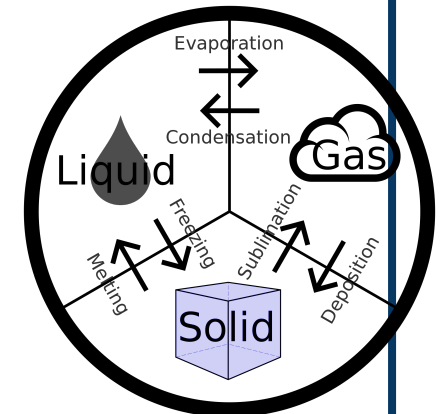
- \*Know the difference between solids, liquids and gases.
- \*Understand the principles of evaporation and condensation within the water cycle.
- \*Gain understanding of particle arrangement in different states of matter.
- \*Name different materials and describe their properties.
- \*Be able to say what is matter.

# Topic: States of Matter

| solid              | liquid             | gas               |
|--------------------|--------------------|-------------------|
|                    |                    |                   |
| ● rigid            | ● not rigid        | ● not rigid       |
| ● fixed shape      | ● no fixed shape   | ● no fixed shape  |
| ● fixed volume     | ● fixed volume     | ● no fixed volume |
| cannot be squashed | cannot be squashed | can be squashed   |



The universe began with a balance of matter and antimatter

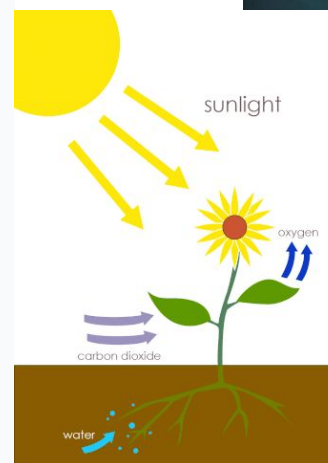
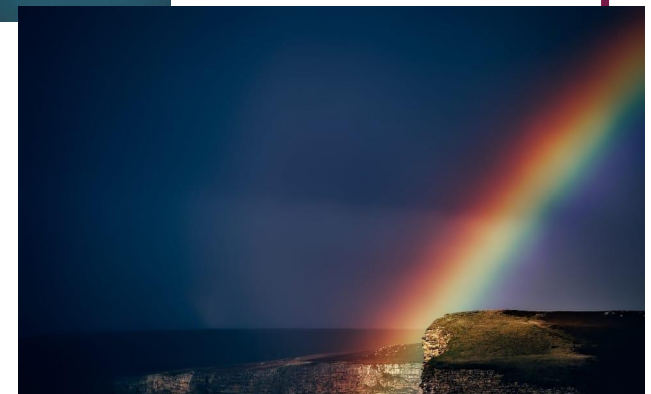
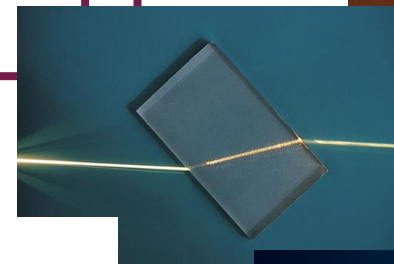
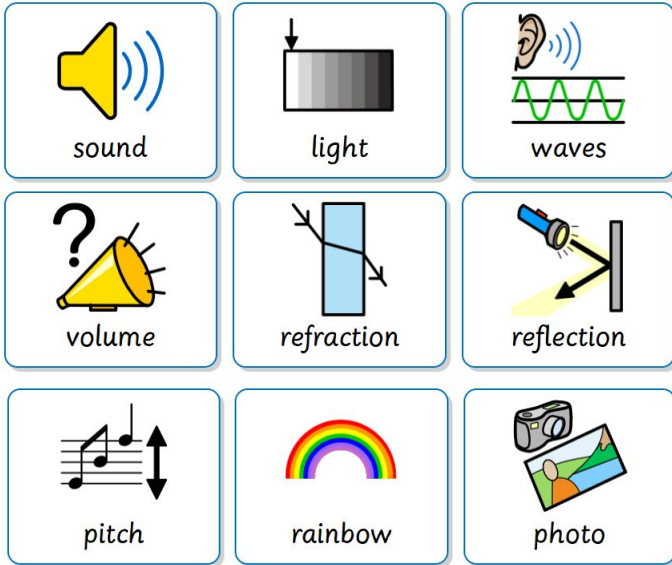


# Physics 2025 KS4 Summer Term

# Topic: Light and Sound

## Key Processes

- \*Know that sound and light both travel in waves.
- \*Understand that light is the key to life on the planet (link to photosynthesis).
- \*Be able to use words such as volume and pitch.
- \*Understand that refracted light causes a rainbow.
- \*Understand how reflections work and use a periscope.



light

pitch

volume

reflection

resonance

waves

refraction

sound