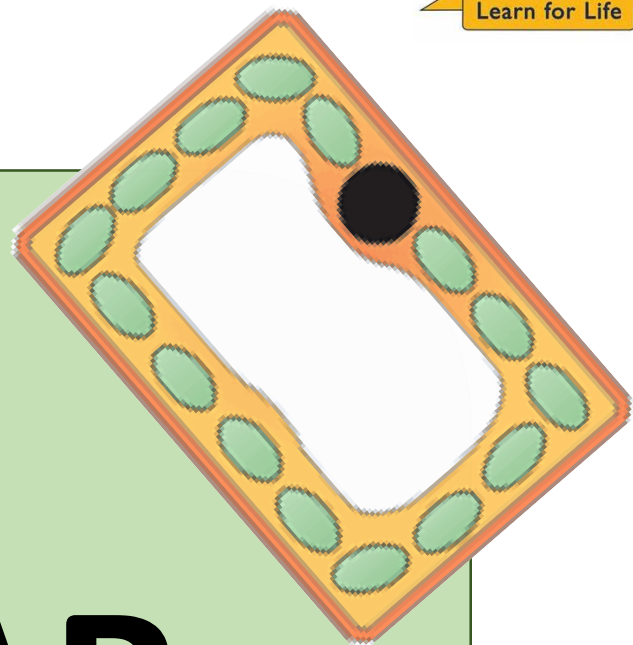
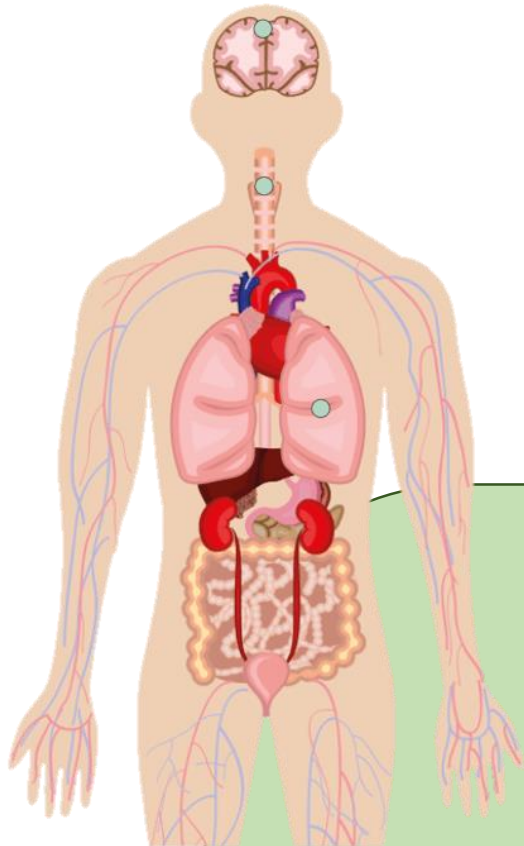
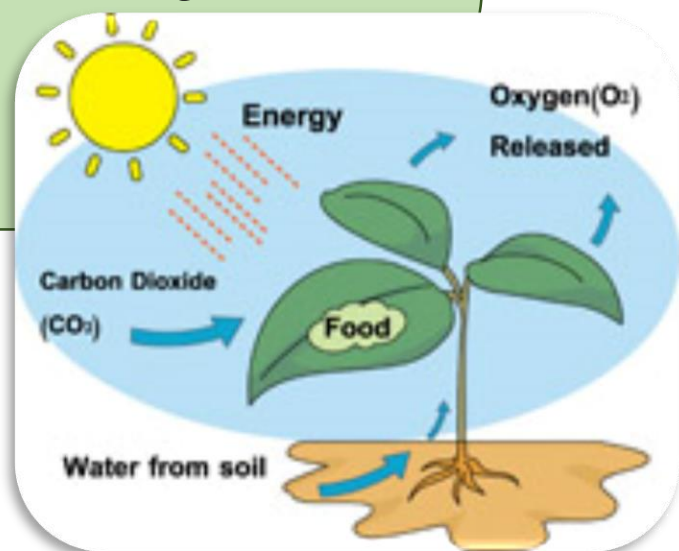
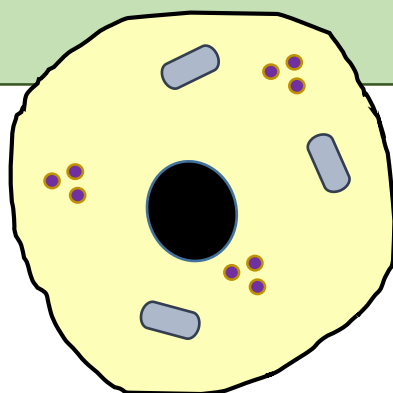
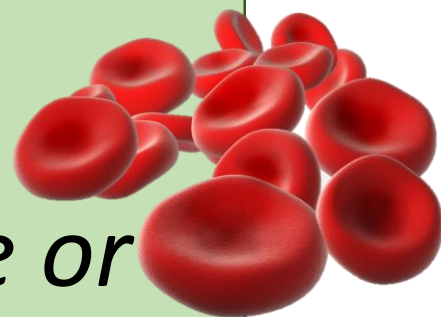


# BIG IDEA

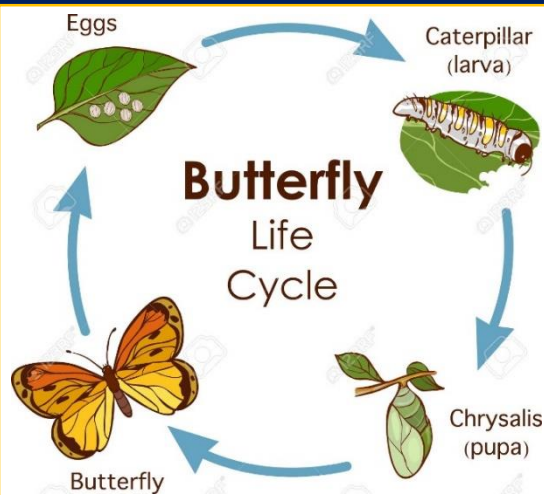


# THE CELLULAR BASIS OF LIFE

*Organisms are made of one or more cells, which need a supply of energy and molecules to carry out life processes.*



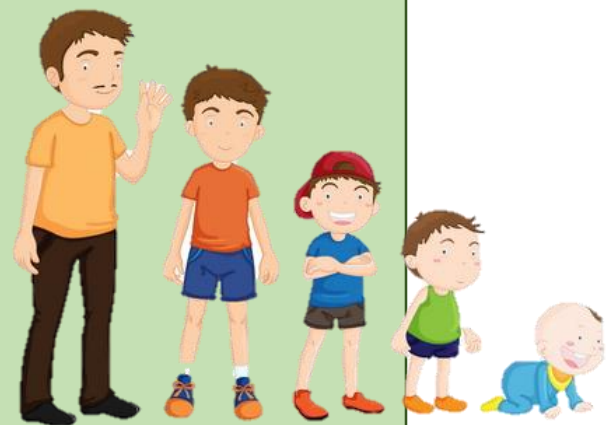
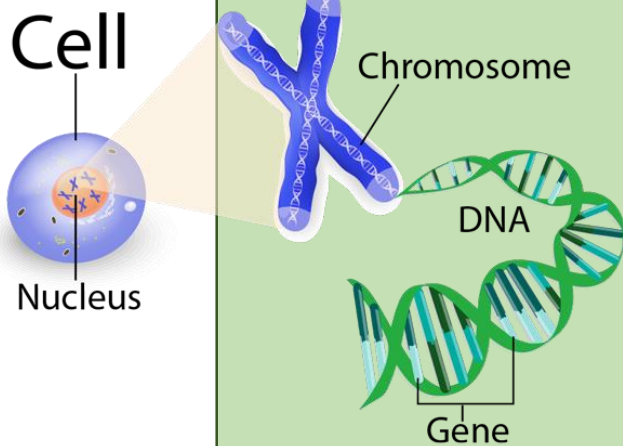
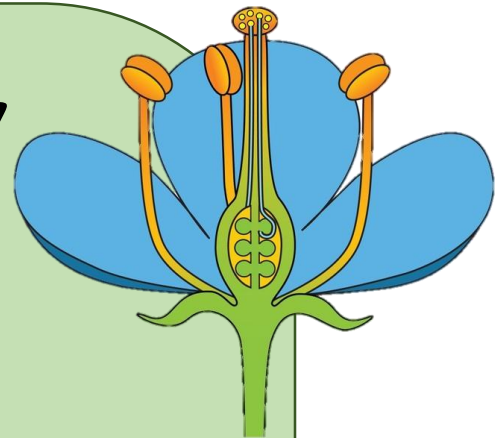
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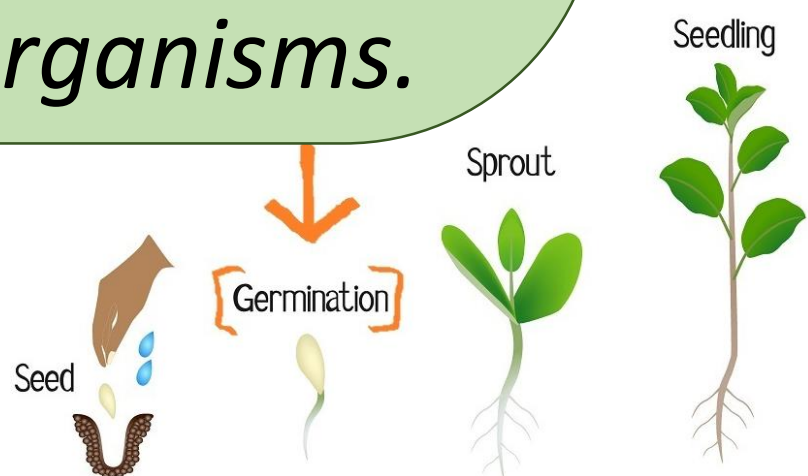
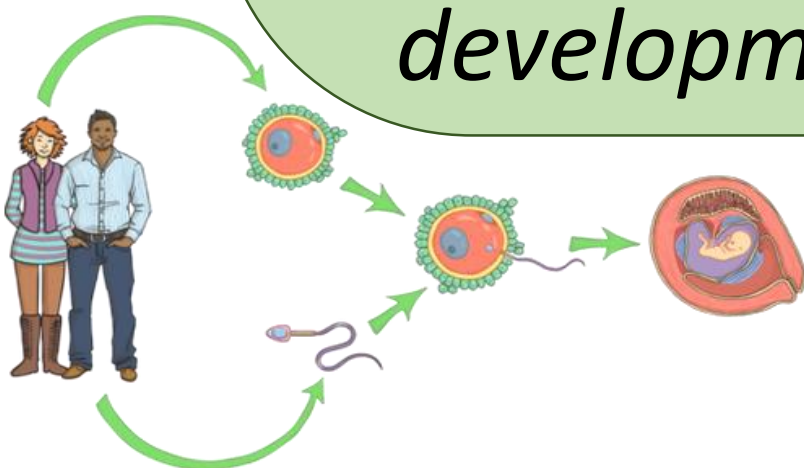
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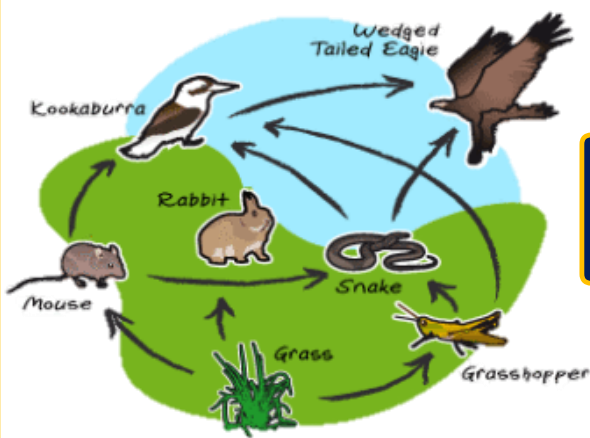
# HEREDITY AND LIFE CYCLES



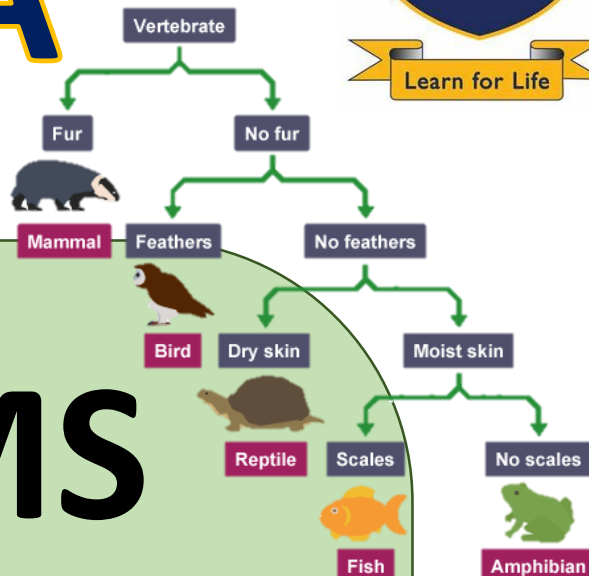
*Genetic information is passed from each generation to the next; this information and the environment affect the features, growth and development of organisms.*







# BIG IDEA



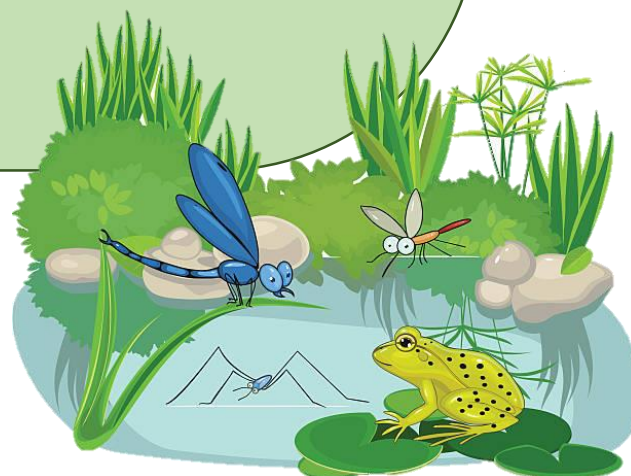
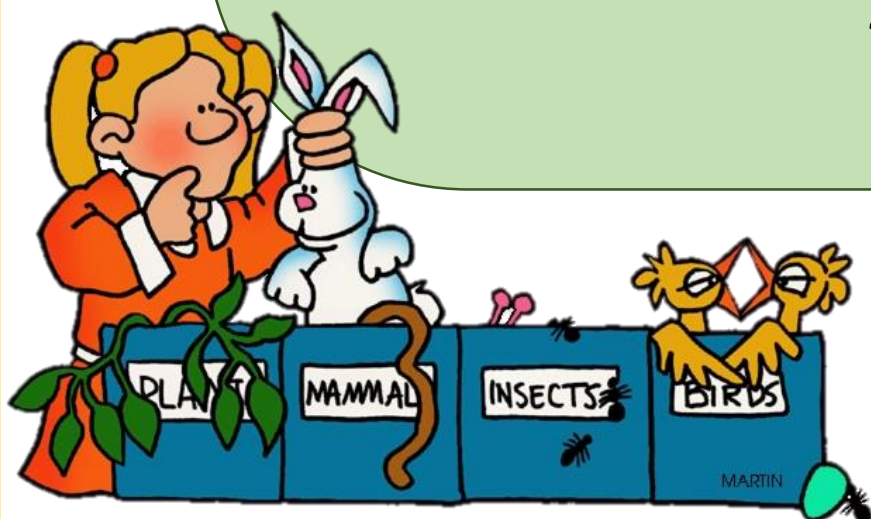
# ORGANISMS AND THEIR ENVIRONNMENTS

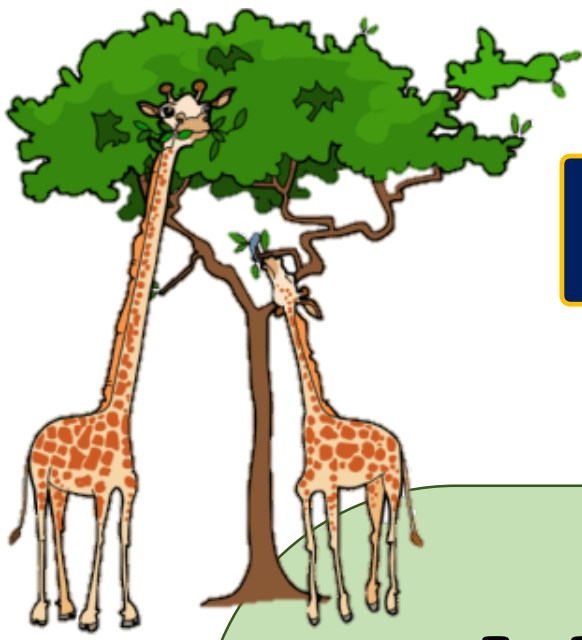
*All organisms, including humans, depend on, interact with and affect the environments in which they live and others organisms that live there.*



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R

F  
A  
B

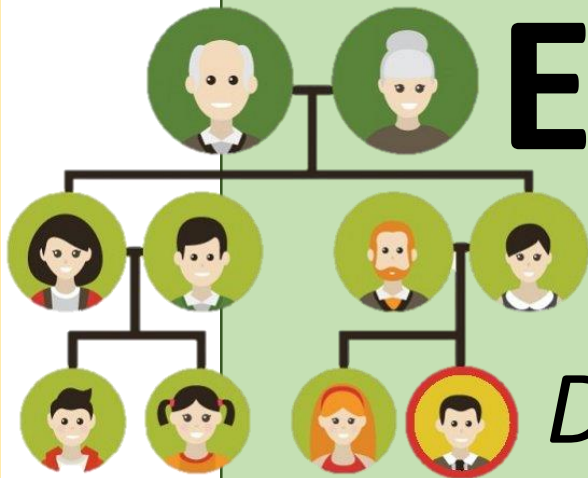




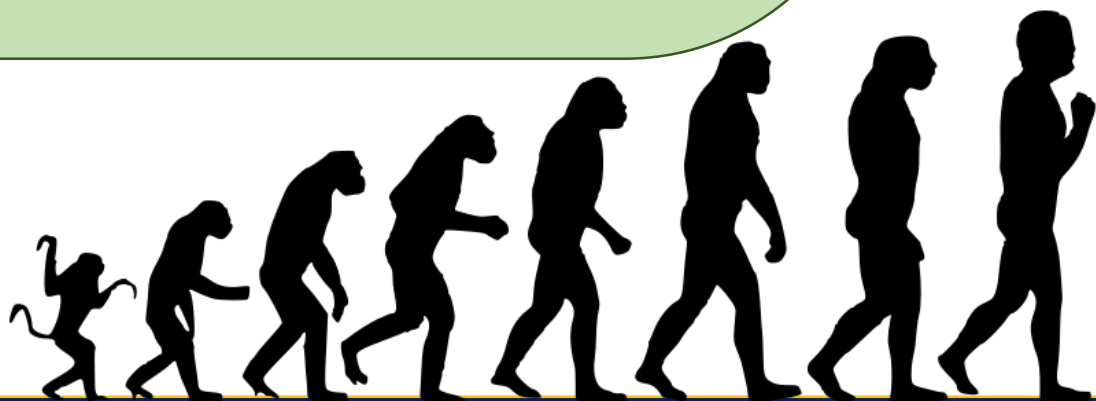
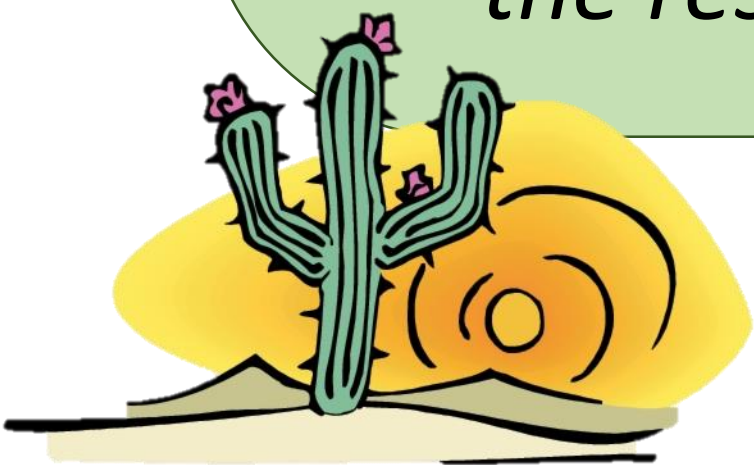
# BIG IDEA



## VARIATION, ADAPTION AND EVOLUTION



*Differences between organisms cause species to evolve by natural selection of better adapted individuals. The great diversity of organisms is the result of evolution.*



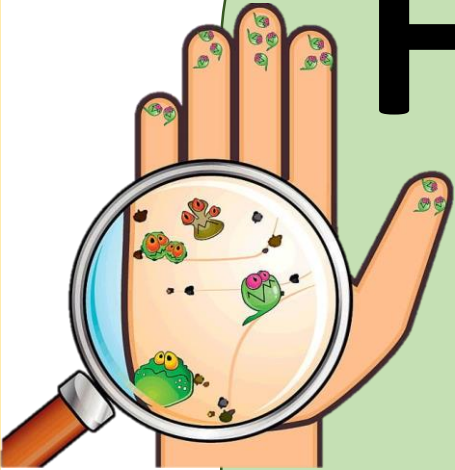




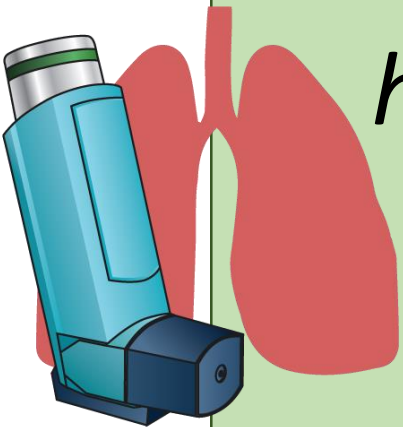
# BIG IDEA



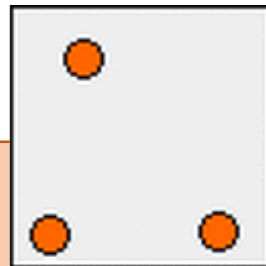
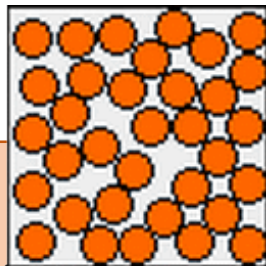
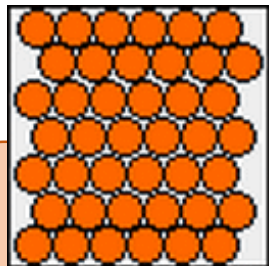
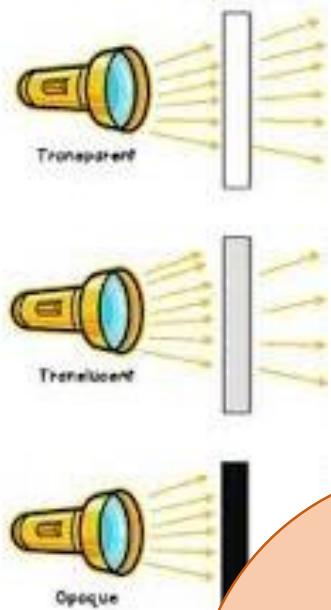
# HEALTH AND DISEASE



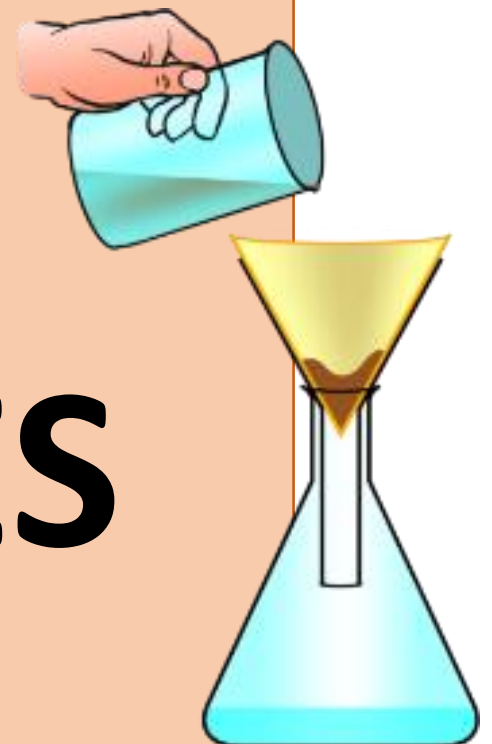
*Organisms must stay in good health to survive and thrive; the health of an individual results from interactions between its body, behaviour, environment and other organisms.*



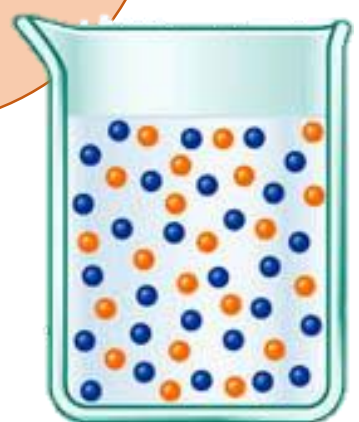
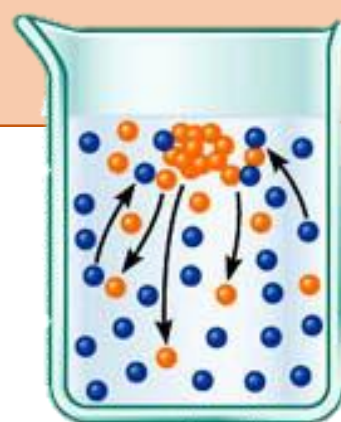
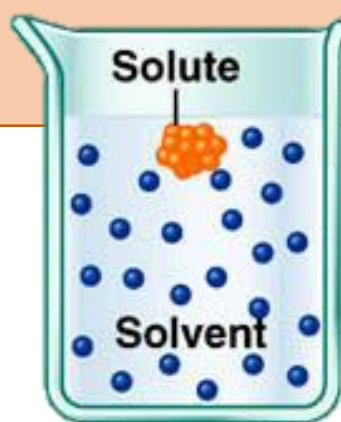
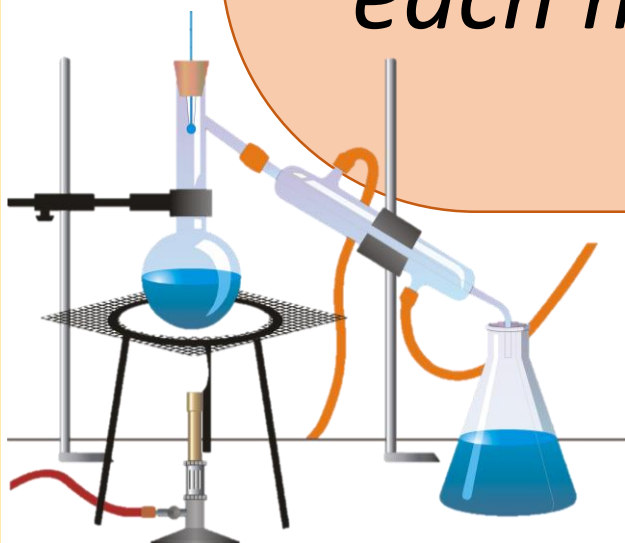
# BIG IDEA



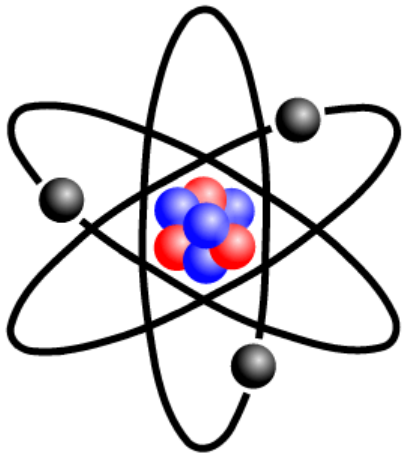
# SUBSTANCES AND PROPERTIES



*Materials are either made of a single chemical substance or a mixture of substances which each have distinct properties.*



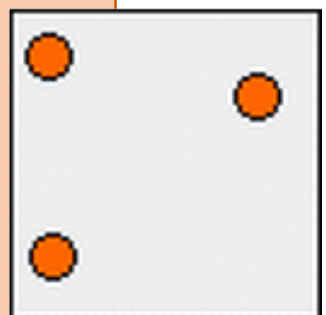
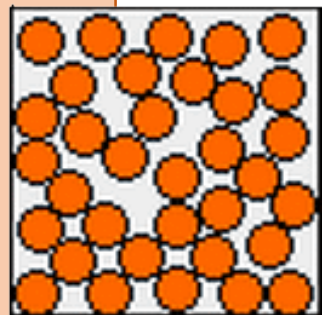
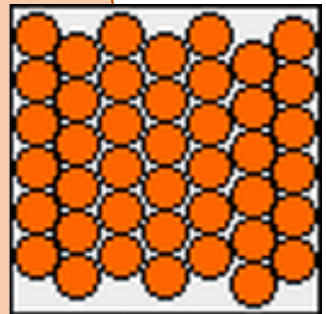
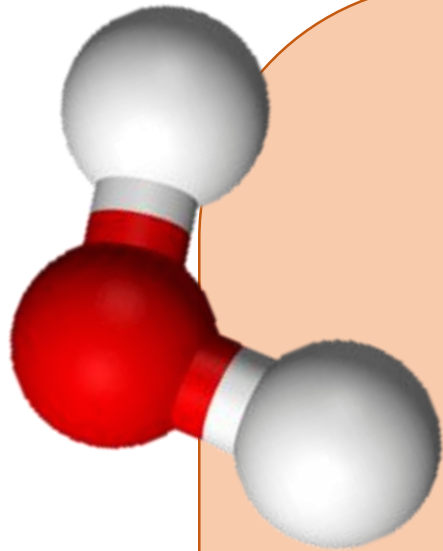




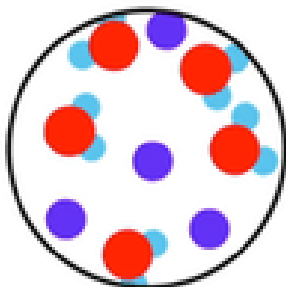
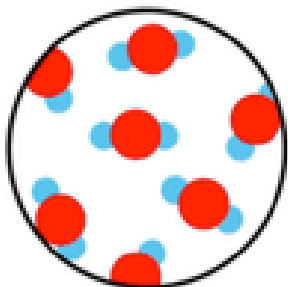
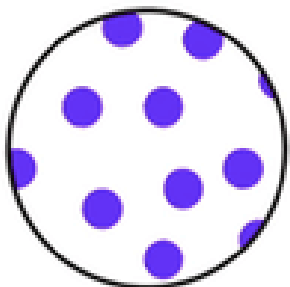
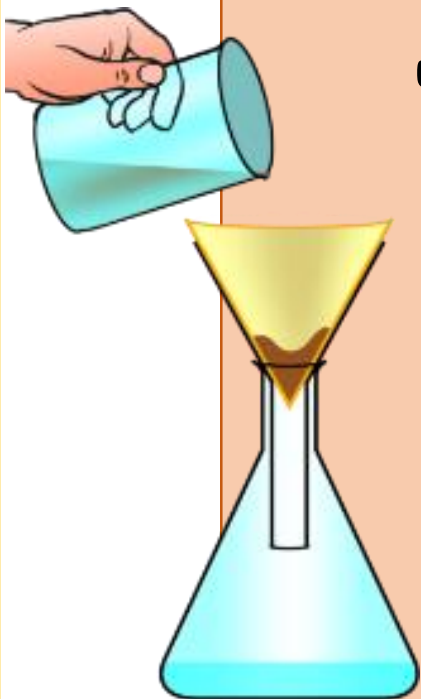
# BIG IDEA

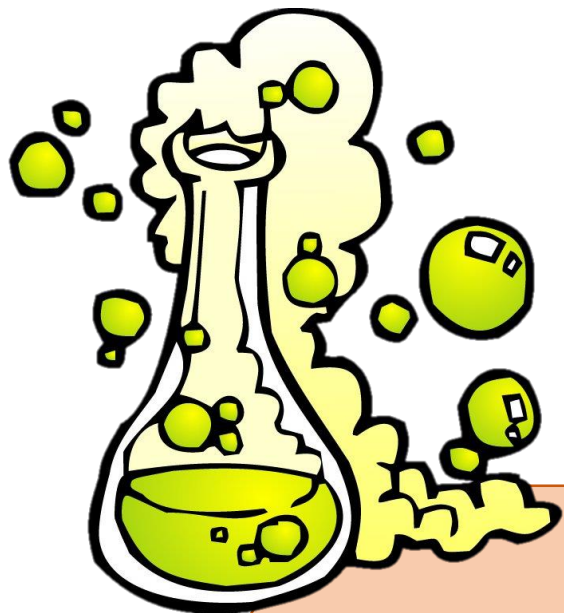


# PARTICLES AND STRUCTURE

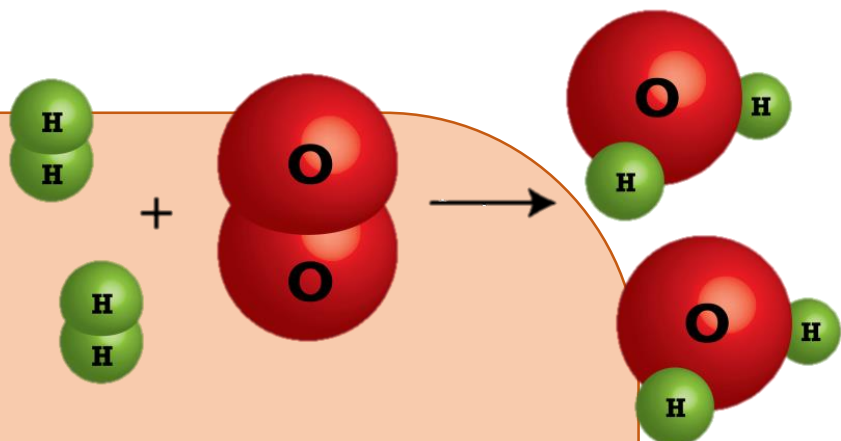


*All matter is made up of atoms. The behaviour and structural arrangement of atoms explains the properties of different materials.*

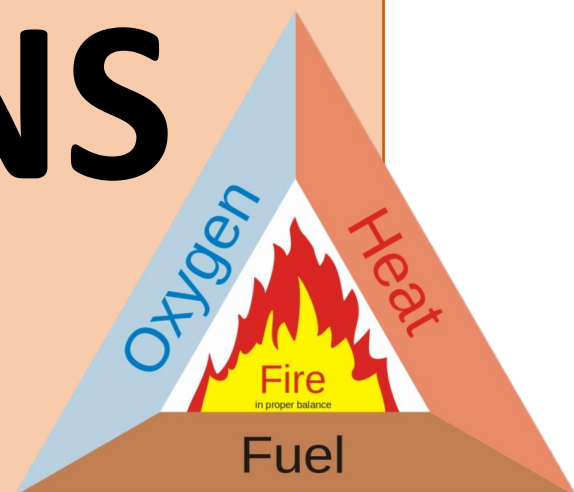




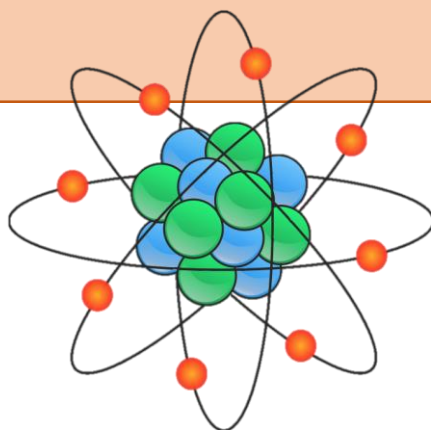
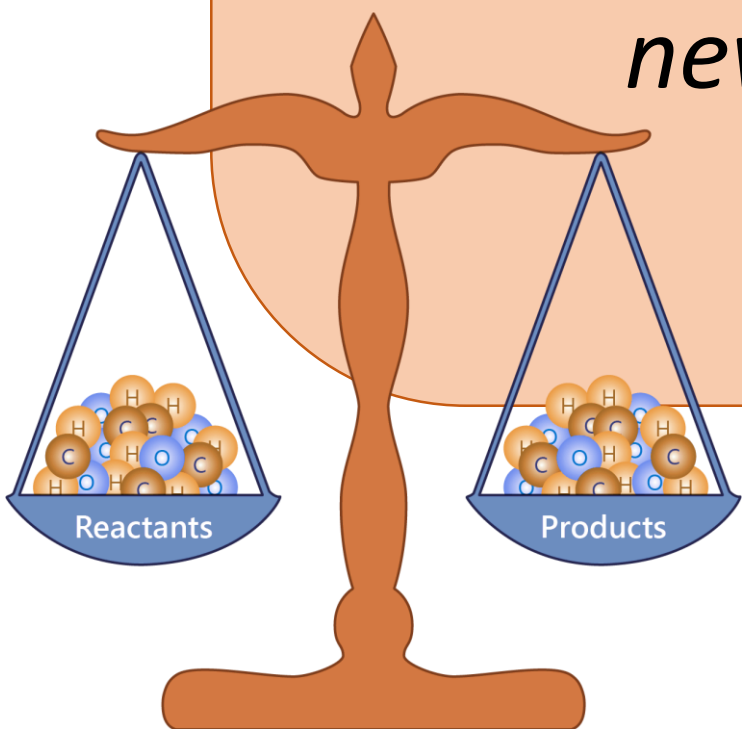
# BIG IDEA



# CHEMICAL REACTIONS



*During a chemical reaction,  
atoms are rearranged forming  
new substances.*







# BIG IDEA



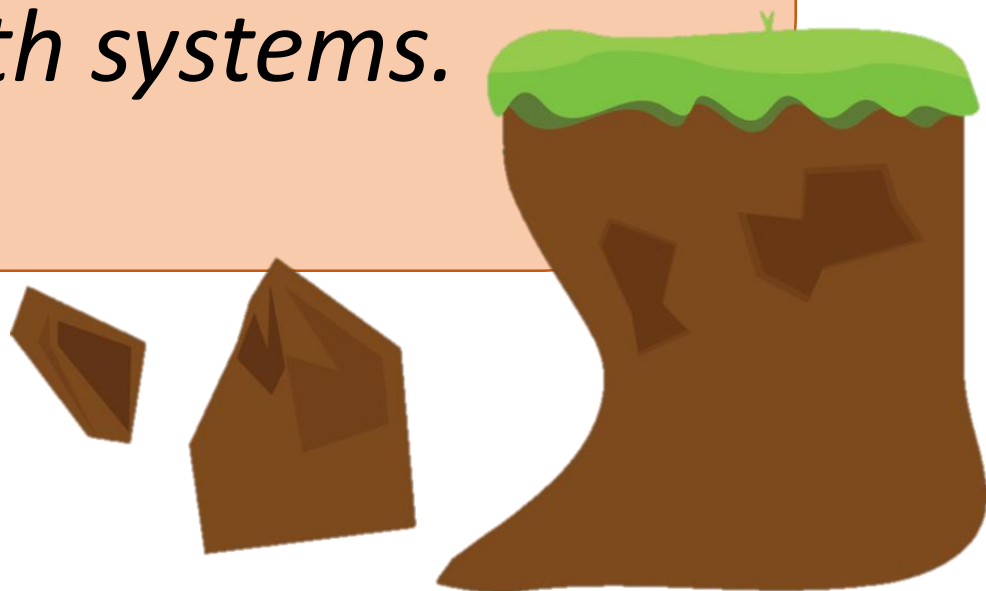
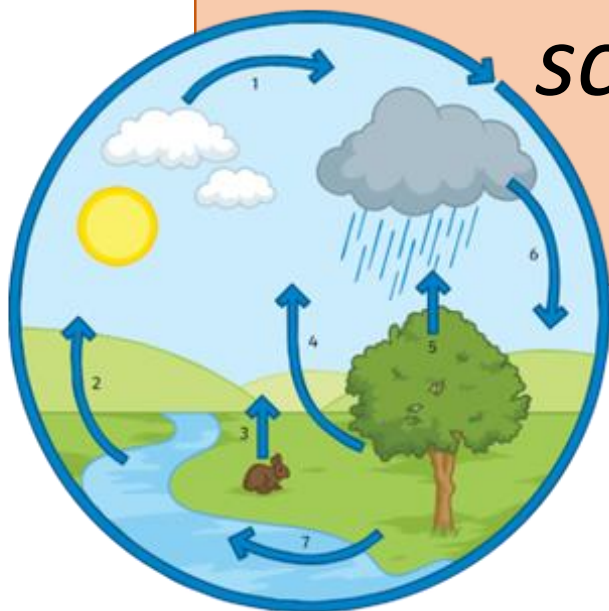
## EARTH



## CHEMISTRY

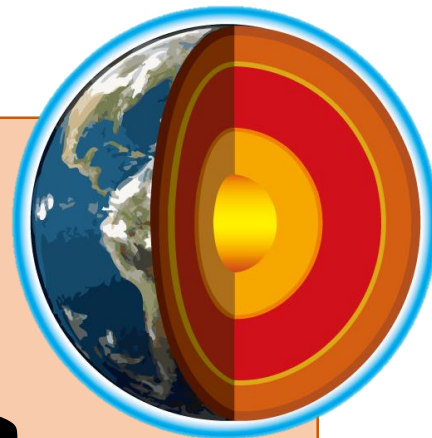


*Substances can move within and between the atmosphere, hydrosphere, geosphere and biosphere as part of large-scale Earth systems.*

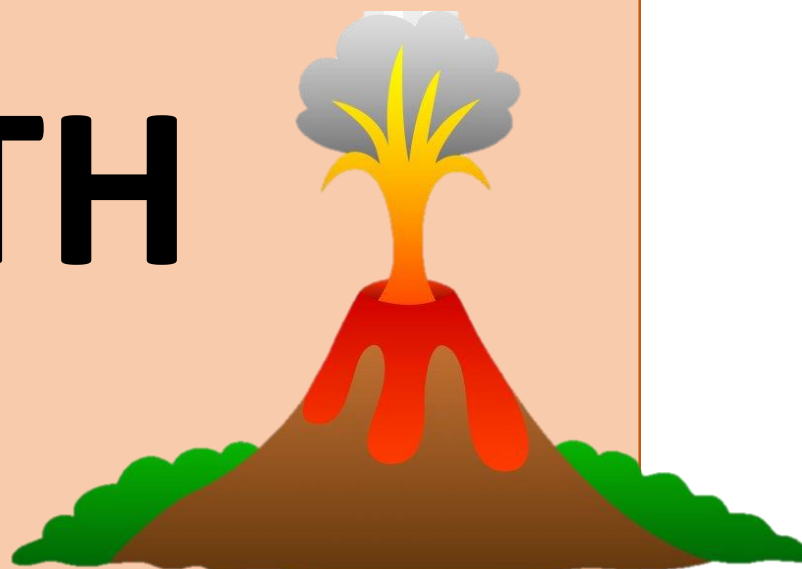




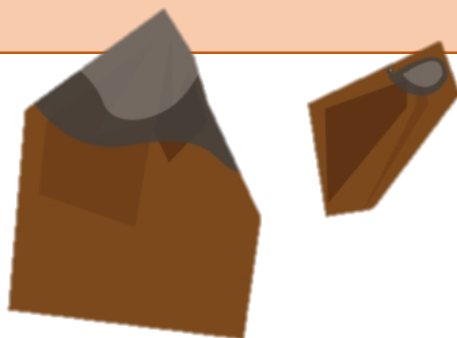
# BIG IDEA



# DYNAMIC EARTH

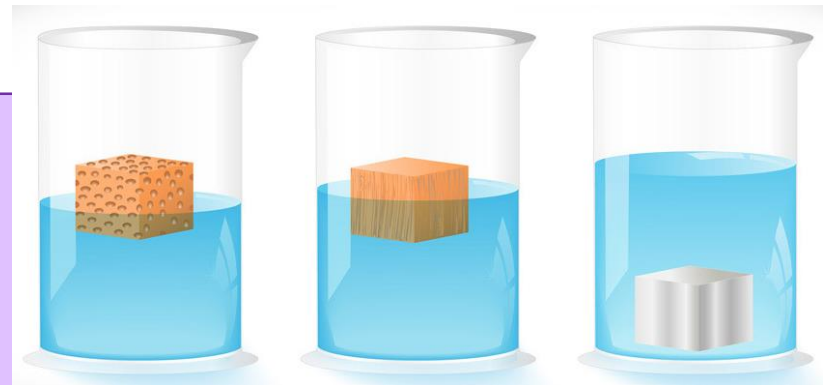
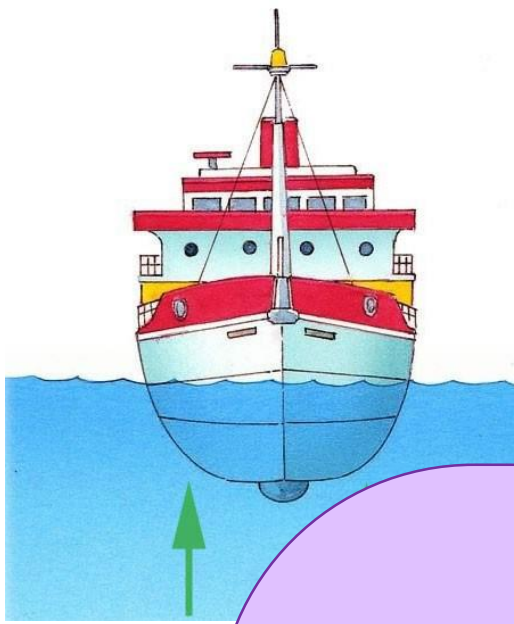


*The Earth's crust is constantly changing as new rocks are formed and older rock is worn away.*

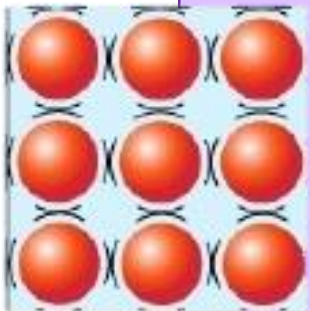
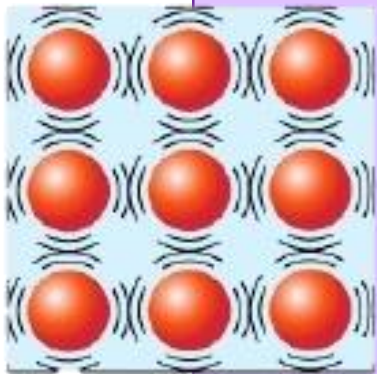




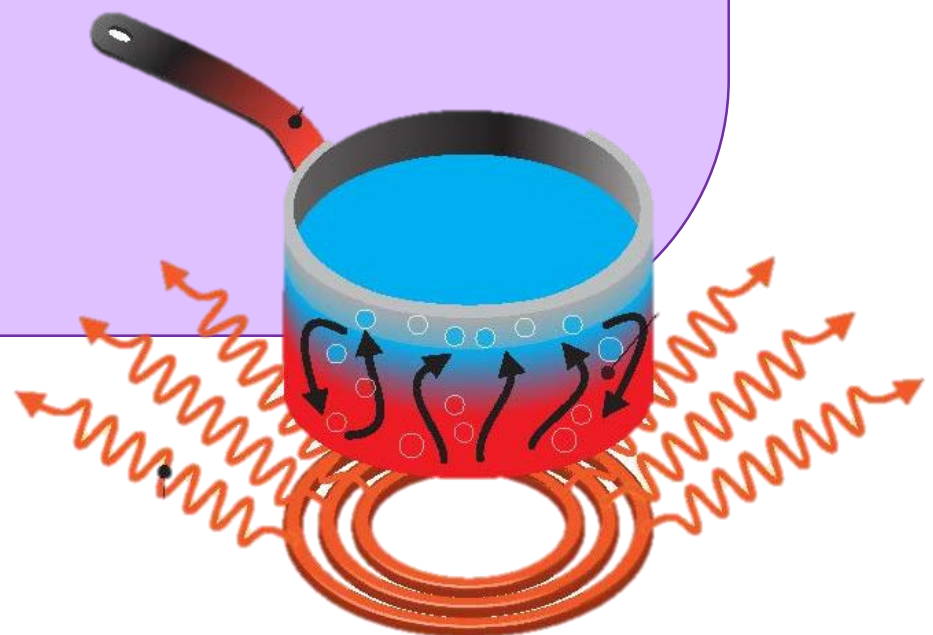
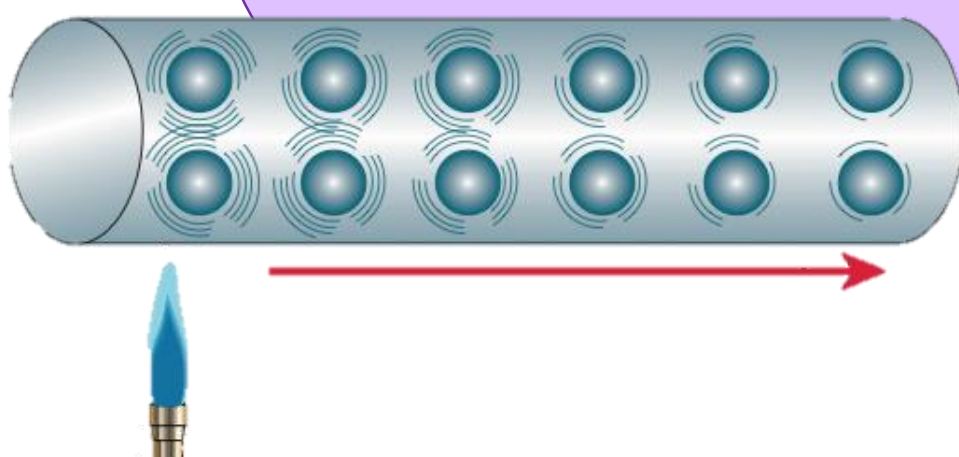
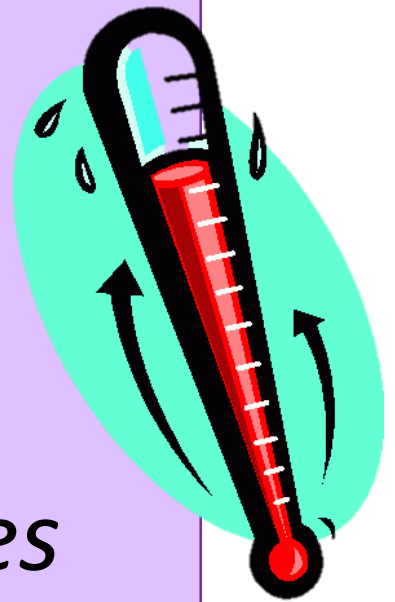
# BIG IDEA

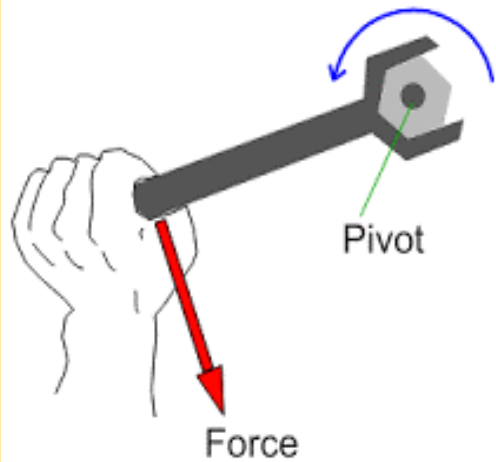


## MATTER



*Objects are made of particles with mass. Understanding particles helps us to design our world.*



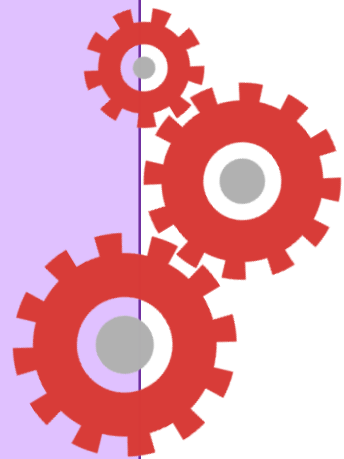
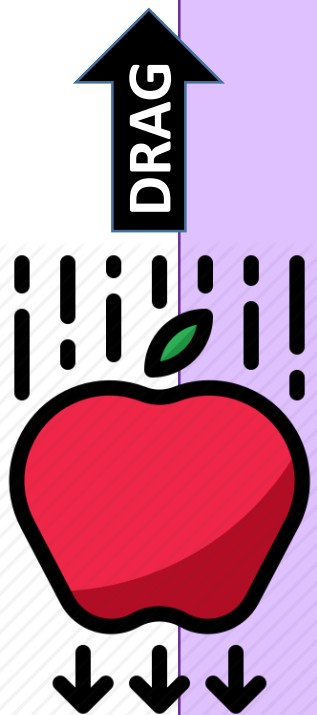


# BIG IDEA

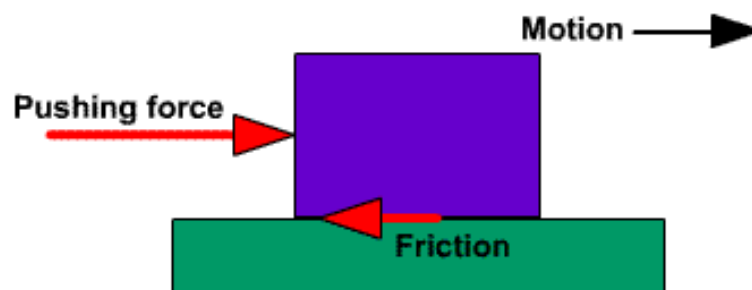
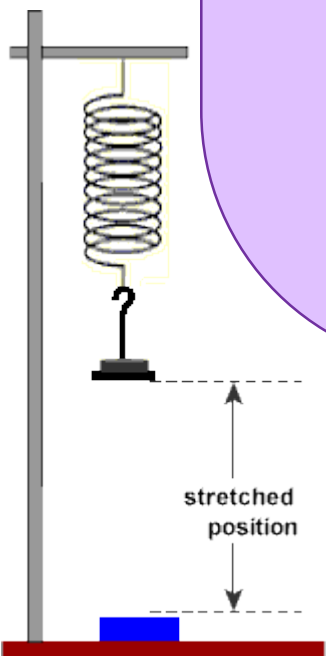
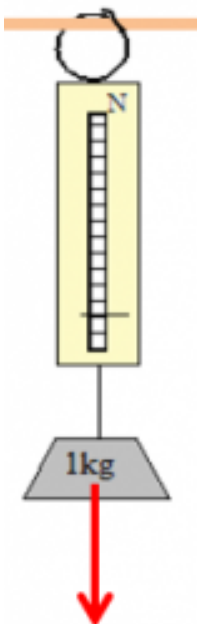


$$\text{speed} = \frac{\text{distance}}{\text{time}}$$

## FORCES AND MOTION

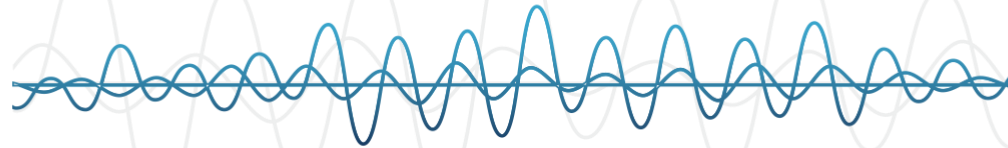
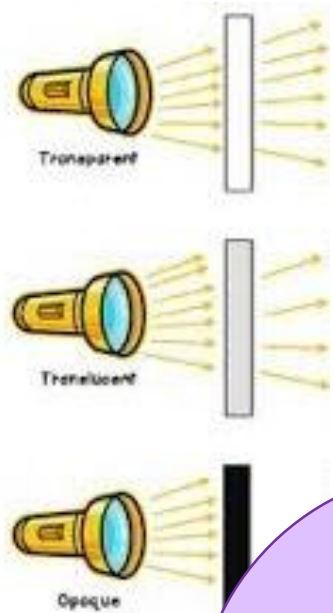


*Forces make things change.  
Understanding forces helps us  
to predict and control physical  
change.*

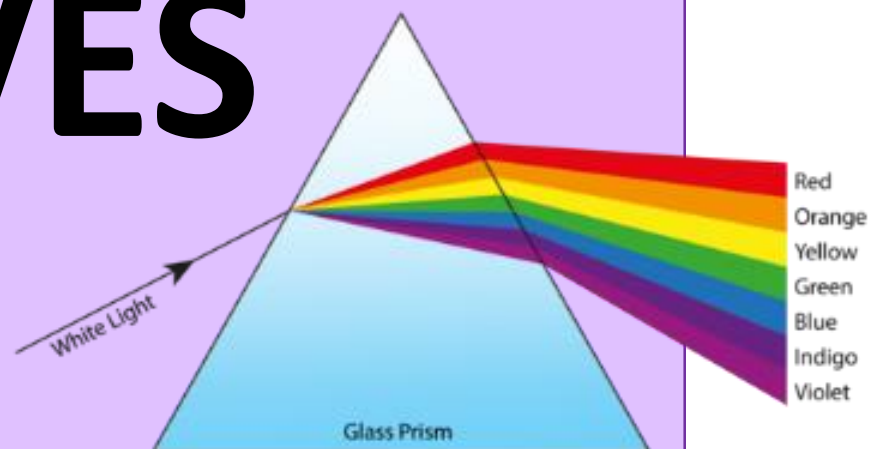




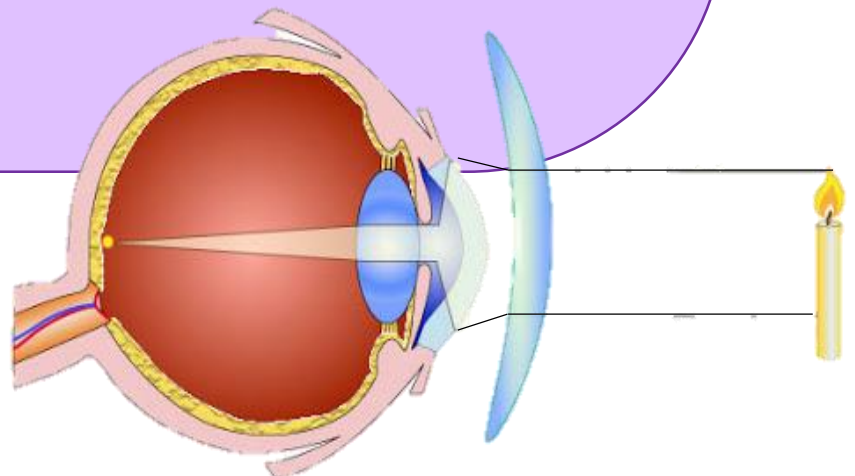
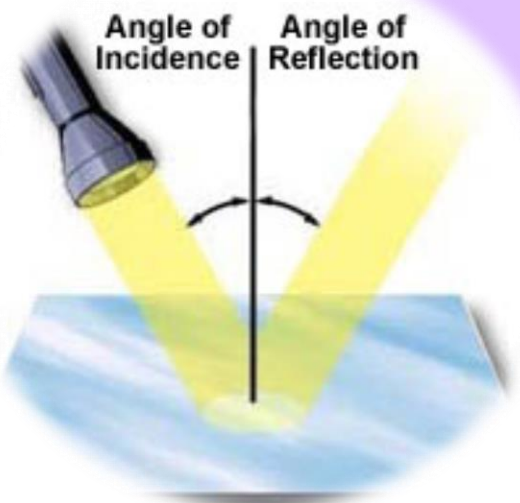
# BIG IDEA

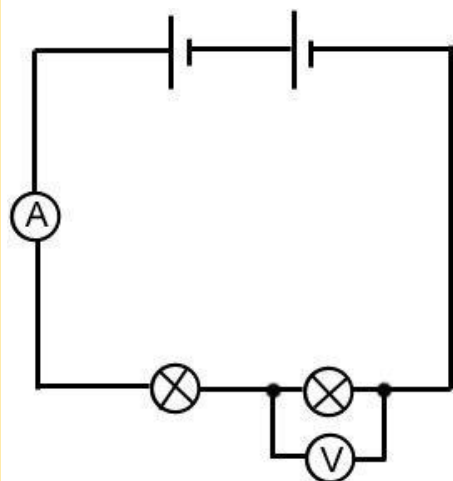


# SOUND, LIGHT AND WAVES

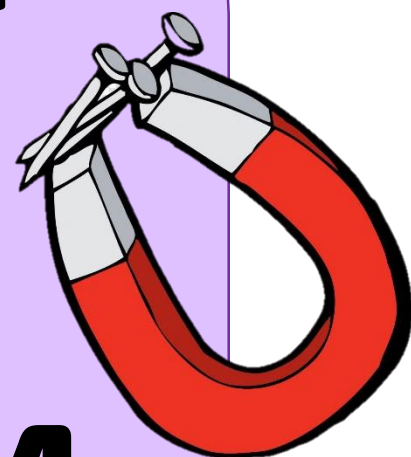


*Waves radiate information.  
Understanding waves helps us  
to communicate.*



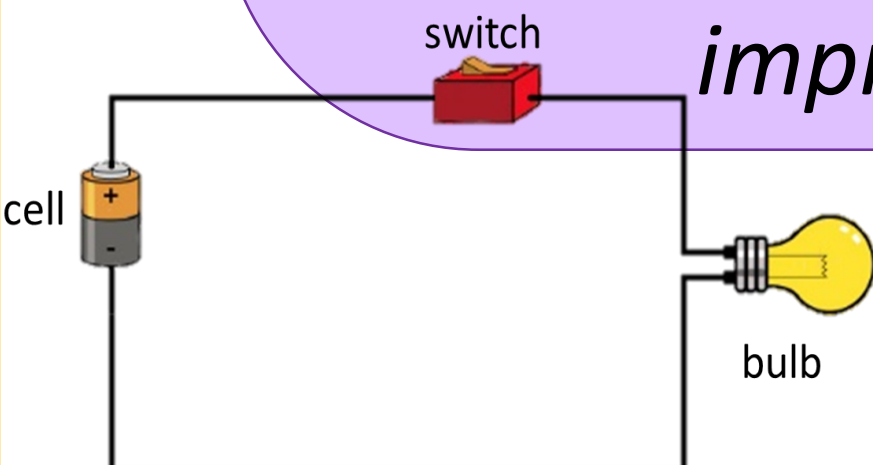
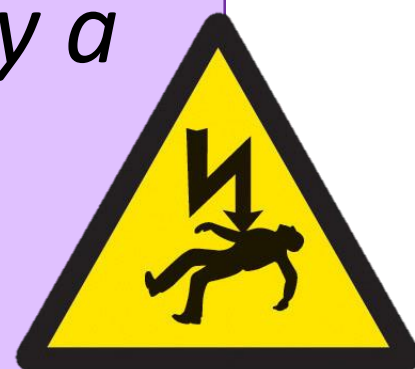
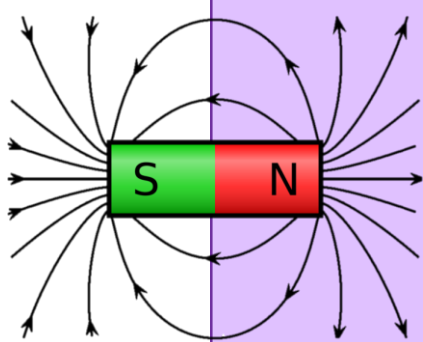


# BIG IDEA



# ELECTRICITY AND MAGNETISM

*The everyday world is largely a consequence of electrical charge. Understanding electricity and magnetism helps us develop technology to improve lives.*

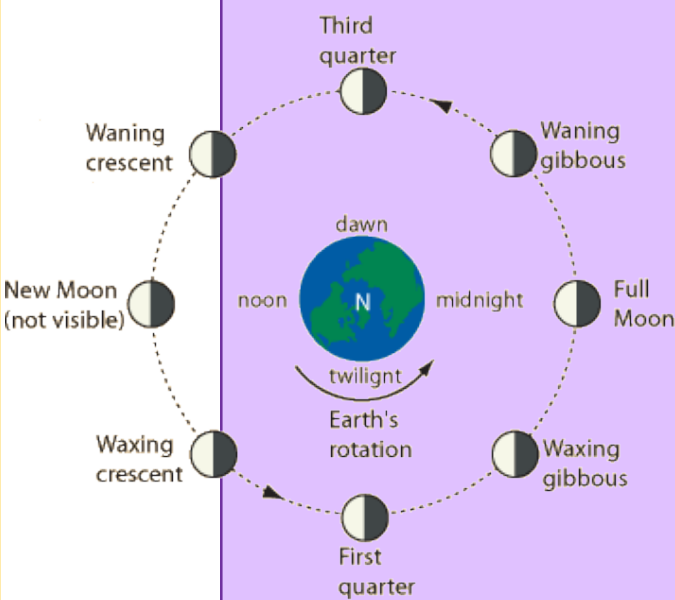
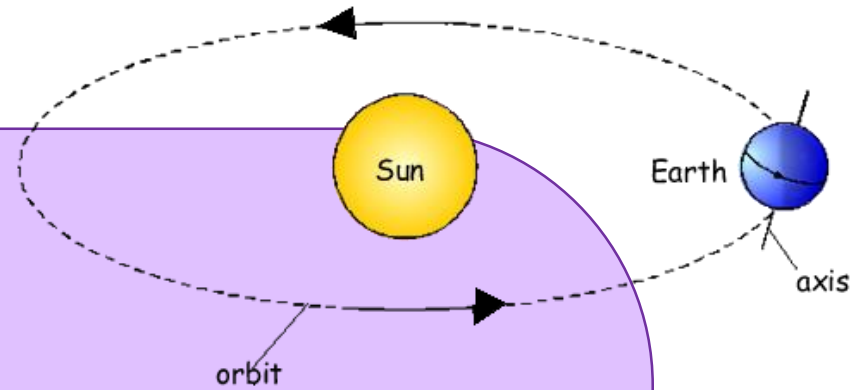




# BIG IDEA



# EARTH IN SPACE



*Understanding the uniqueness of the earth and the vastness of space gives us perspective and awe.*

