

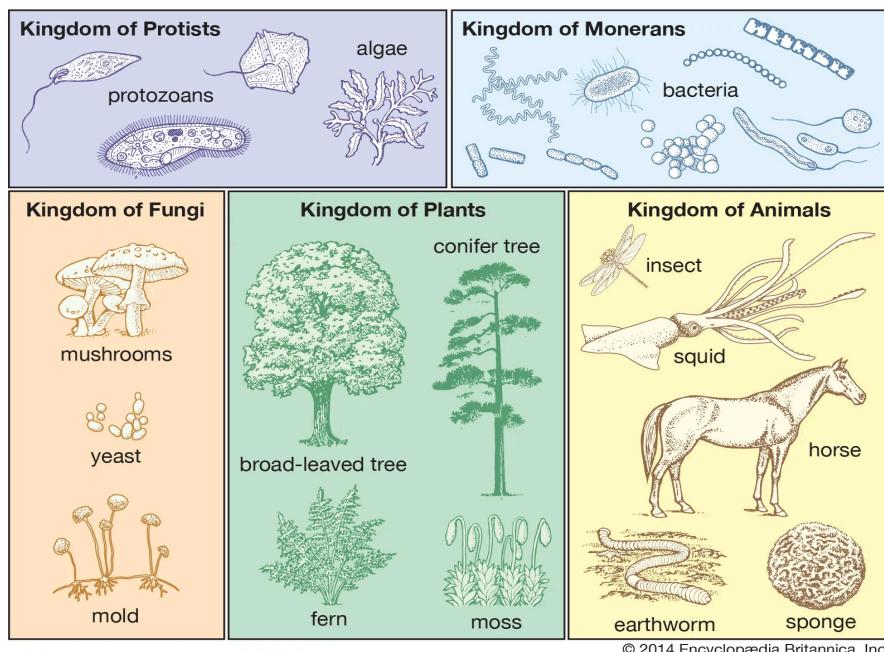
General Topic: Plant and Animal Diversity

Lesson Overview:

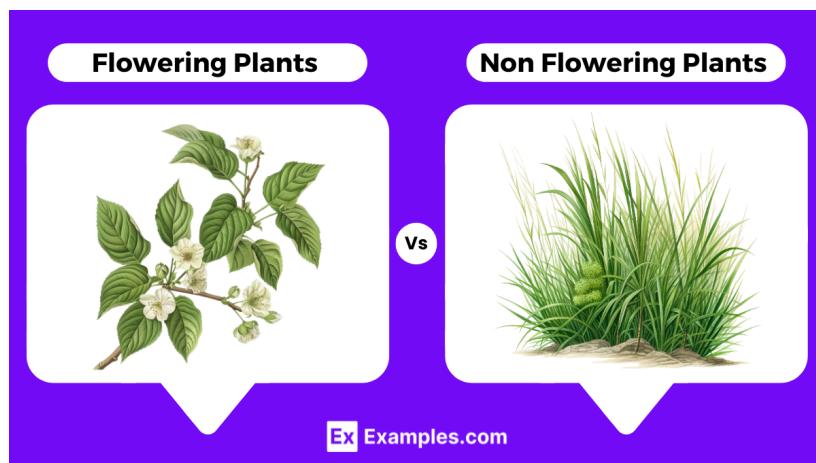
Understanding the wide variety of **plants and animals** helps us appreciate biodiversity and the balance of ecosystems.

Key Concepts and Subtopics:

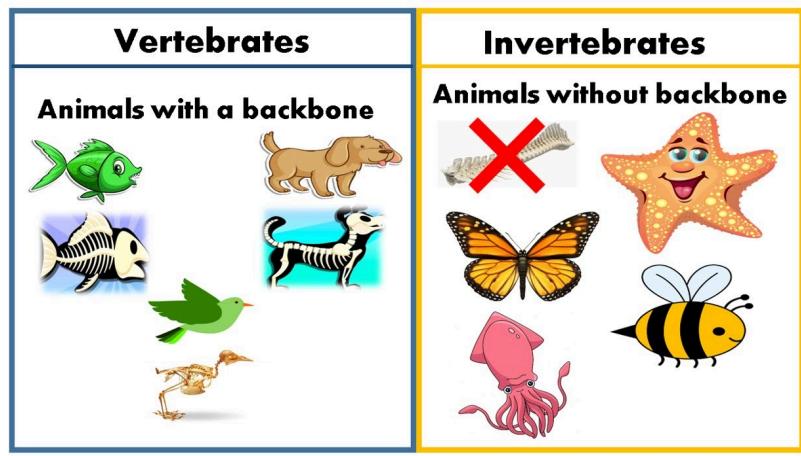
1. Classification – Grouping organisms by their characteristics



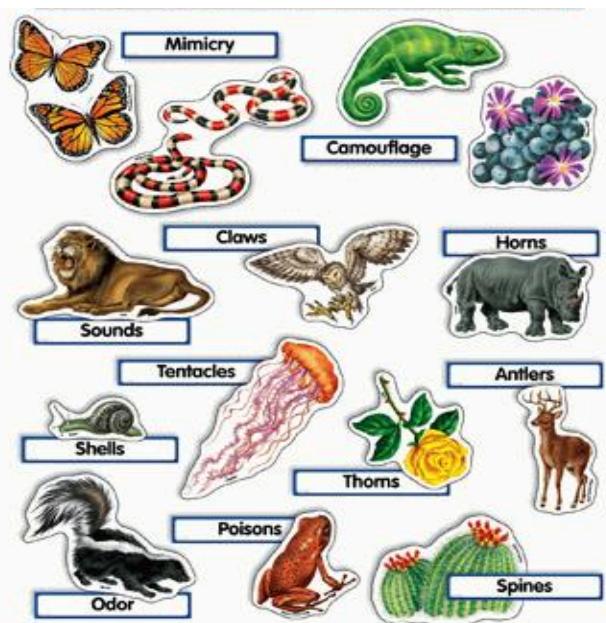
2. Plant Types – Flowering vs. non-flowering plants



3. Animal Types – Vertebrates (with backbone) and invertebrates (without backbone)



4. Adaptations – Features that help plants and animals survive



Reference:<http://www.teachingdisplay.co.uk/products/34-plant-and-animal-adaptations-display-set.aspx>

Real-Life Example:

Cacti have thick stems to store water; penguins have thick feathers to keep warm.

Remember This!

- *Biodiversity keeps our environment healthy and balanced.*

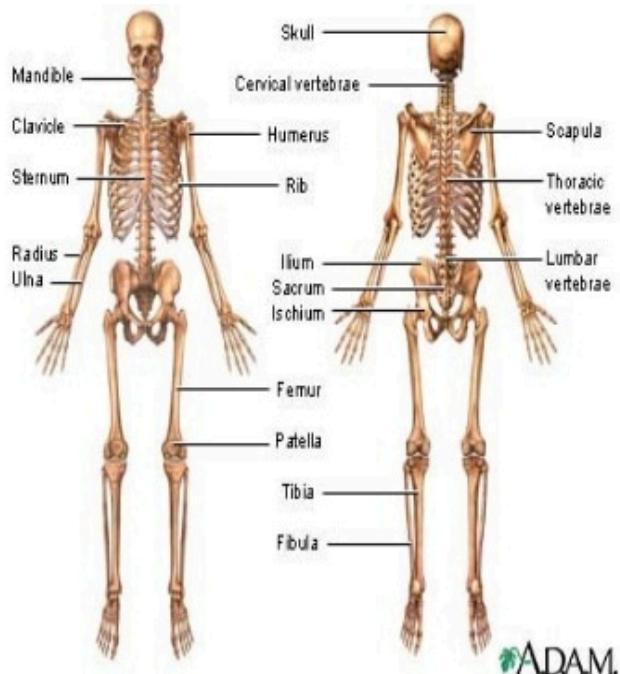
General Topic: Human Body Basics

Lesson Overview:

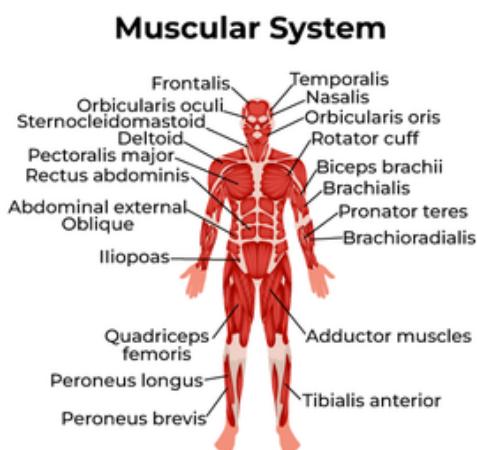
The **human body** is made up of systems that work together to keep us alive and healthy.

Key Concepts and Subtopics:

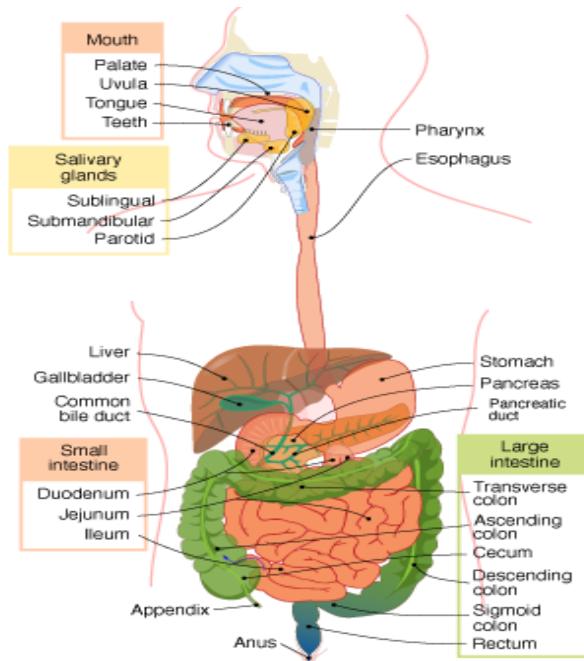
1. **Skeletal System** – Supports the body and protects organs



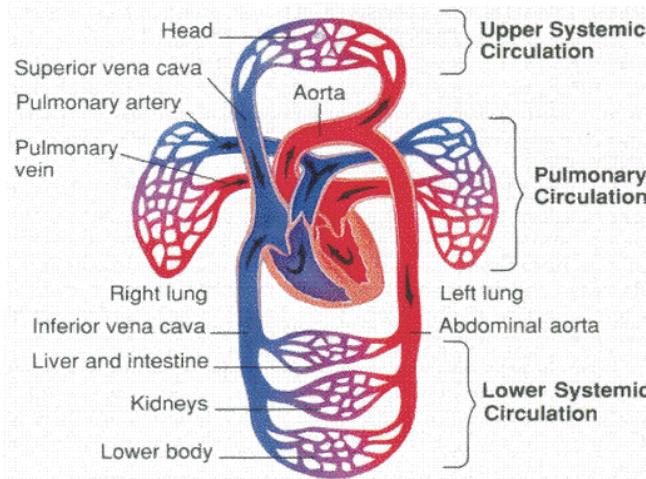
2. **Muscular System** – Helps in movement



3. Digestive System – Breaks down food for energy



4. Circulatory System – Moves blood, oxygen, and nutrients around the body



Real-Life Example:

When you run, your muscles, bones, heart, and lungs all work together.

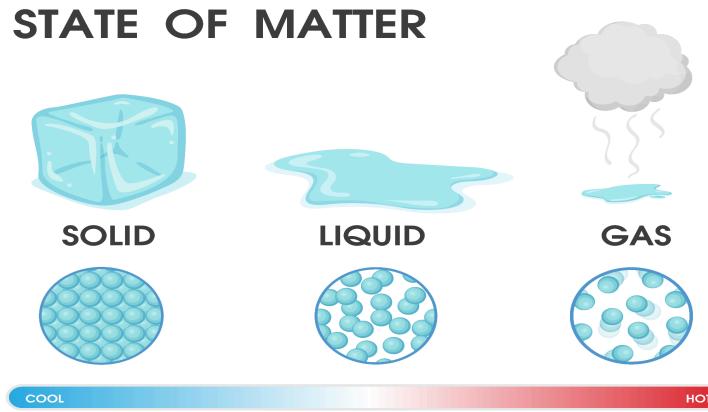
Remember This!

- *Taking care of your body means eating healthy, exercising, and resting well.*

General Topic: Matter: Properties and Changes

Lesson Overview:

Matter is anything that has mass and takes up space. It can change in form or appearance.



Reference: <https://wardowtuocircuit.z21.web.core.windows.net/solid-gas-and-liquid-diagram.html>

Key Concepts and Subtopics:

1. **States of Matter** – Solid, liquid, gas
2. **Physical Changes** – Change in shape or state, but still the same material (e.g., melting ice)
3. **Chemical Changes** – Produces a new substance (e.g., burning wood)
4. **Properties** – Color, shape, size, texture, hardness, solubility

Real-Life Example:

Water boiling turns into steam — a change from liquid to gas.

Remember This!

- *Matter can change physically or chemically, but it's still made up of tiny particles.*

General Topic: Earth Science: Landforms, Water Cycle, Weather

Lesson Overview:

Earth has various landforms, a **water cycle** that moves water around, and **weather patterns** that affect our daily lives.

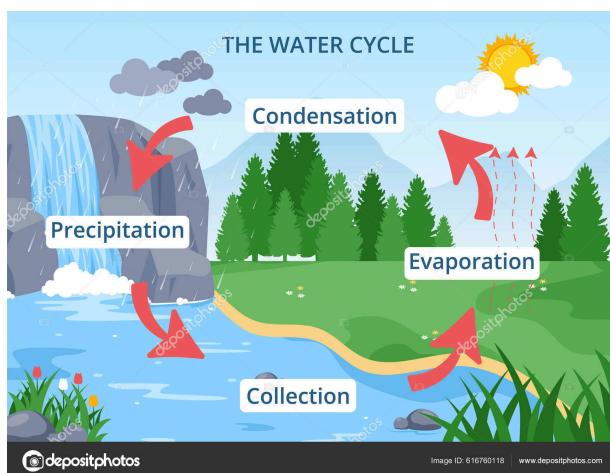
Key Concepts and Subtopics:

1. Landforms – Mountains, valleys, plains, plateaus

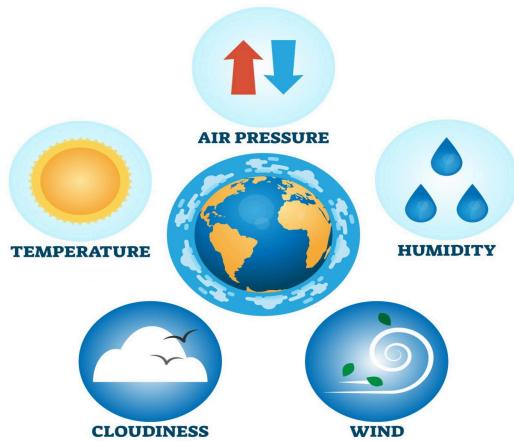


Reference:<https://manualfixwnwdamageable.z21.web.core.windows.net/diagram-of-landforms.html>

2. Water Cycle – Evaporation, condensation, precipitation, collection

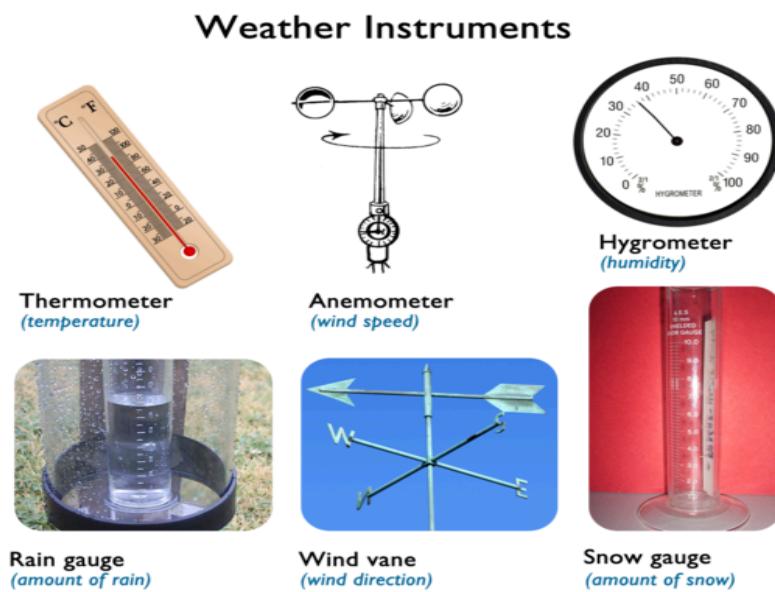


3. Weather Elements – Temperature, wind, precipitation, humidity



Reference: <https://www.australianenvironmentaleducation.com.au/education-resources/weather/>

4. Weather Instruments – Thermometer, rain gauge, wind vane, barometer, hygrometer, anemometer



Reference: <https://www.sciencehub4kids.com/weather-instruments-and-their-uses-teach-kids-barometer-hygrometer-anemometer/>

Real-Life Example:

Rain falls due to the water cycle, which is powered by the sun's heat.

Remember This!

- The water cycle is a never-ending process that keeps Earth's water moving.

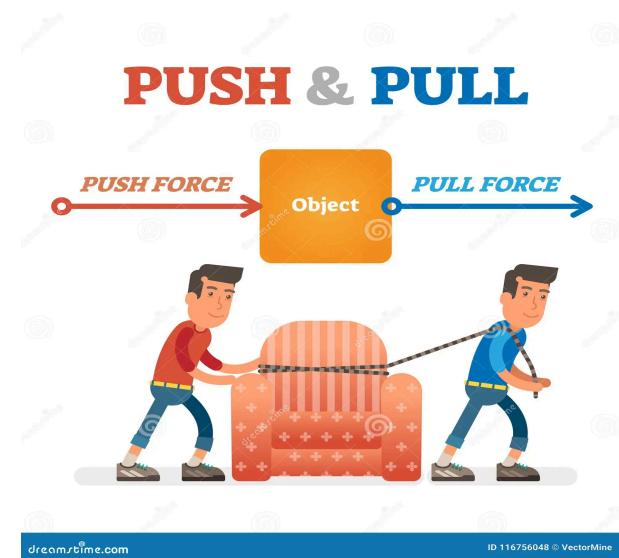
General Topic: Forces and Simple Machines

Lesson Overview:

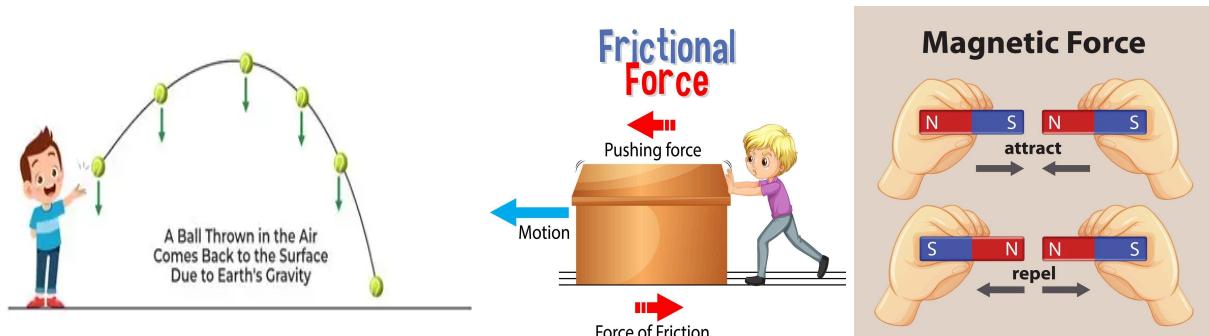
Forces can make objects move, stop, or change direction. **Simple machines** make work easier.

Key Concepts and Subtopics:

1. Force – A push or pull



2. Types of Force – Gravity, friction, magnetic force



Reference:<https://www.artofit.org/image-gallery/608619337148861315/download-magnetic-force-show-magnetic-attraction-and-repulsion-for-kids-physics-educational-for-free/><https://www.geeksforgeeks.org/gravitational-force/><https://www.vecteezy.com/vector-art/2764439-frictional-force-for-science-and-physics-education>

3. Simple Machines – Lever, wheel and axle, pulley, inclined plane, wedge, screw



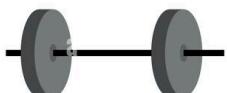
Inclined plane



Lever



Pulley



Wheel and axle



Wedge



Screw

alamy

Image ID: 2RCWM79
www.alamy.com

4. Work – Using force to move something over a distance



Real-Life Example:

Using a pulley to lift a heavy bucket of water from a well.

Remember This!

- Simple machines reduce the effort needed to do work.

General Topic: Environmental Awareness

Lesson Overview:

Caring for the environment helps keep our planet safe for future generations.

Key Concepts and Subtopics:

1. Reduce, Reuse, Recycle – Minimize waste



dreamstime.com

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2. Pollution – Air, water, land, noise

TYPES OF POLLUTION



dreamstime.com

ID 212141961 © VectorMine

3. Conservation – Saving natural resources



Reference:https://www.revertimemag.com/blogs_on/how-to-conserve-natural-resources

4. Sustainable Practices – Planting trees, saving water, using renewable energy



Real-Life Example:

Reusing old jars as plant pots instead of throwing them away.

Remember This!

- Small actions can make a big difference in protecting the Earth.