

Science For 3rd Grade

Science worksheet

What's the Matter?

Tell whether each is a solid, liquid, or gas.

1. Milk - _____
2. Cookie - _____
3. Oxygen - _____
4. Fish - _____
5. Pencil - _____
6. Maple syrup - _____
7. Shampoo - _____
8. Carbon dioxide - _____
9. Ice cube - _____
10. Paint - _____
11. Oil - _____
12. Salt - _____
13. Water vapor - _____
14. Gasoline - _____
15. Helium - _____
16. Sand - _____



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Science is an exciting subject that helps us understand the world around us. In third grade, students start to explore various scientific concepts that explain how things work. From learning about plants and animals to understanding the basic principles of physics and chemistry, science opens up a world of discovery. This article will take you on a journey through the fascinating world of science, highlighting key topics and ideas that are age-appropriate and fun to learn!

What is Science?

Science is the study of the natural world. It involves asking questions, making observations, and conducting experiments to learn more about how things work. Scientists use their senses—like sight, hearing, touch,

taste, and smell—to gather information. They also use tools and technology to help them in their studies.

Branches of Science

There are several branches of science that we can explore:

1. **Biology:** The study of living things, including plants, animals, and ecosystems.
2. **Chemistry:** The study of matter and how different substances interact with each other.
3. **Physics:** The study of forces, energy, and the laws of motion.
4. **Earth Science:** The study of the Earth, including rocks, weather, and the environment.
5. **Astronomy:** The study of the universe, including stars, planets, and galaxies.

Each branch of science helps us understand different aspects of the world we live in!

Exploring Living Things: Biology

Biology is all about living things. In third grade, students learn about the characteristics of plants and animals, their life cycles, and their habitats.

The Five Characteristics of Living Things

Living things share five key characteristics:

1. **Growth:** Living things grow and change over time.
2. **Reproduction:** They can produce new organisms.
3. **Response to Environment:** Living things respond to changes in their surroundings.
4. **Metabolism:** They convert food into energy to stay alive.
5. **Cellular Organization:** All living things are made of cells.

Plants and Their Parts

Plants are an essential part of our ecosystem. They provide oxygen and food for many organisms. Here are the main parts of a plant:

- **Roots:** Anchor the plant in the ground and absorb water and nutrients.
- **Stem:** Supports the plant and transports water and nutrients between the roots and leaves.

- Leaves: Where photosynthesis occurs, allowing the plant to make food using sunlight.
- Flowers: Help in reproduction and can attract pollinators like bees and butterflies.

The Animal Kingdom

Animals are diverse and can be found in many different habitats. They can be classified into two main groups:

- Vertebrates: Animals with a backbone (e.g., mammals, birds, reptiles, amphibians, and fish).
- Invertebrates: Animals without a backbone (e.g., insects, spiders, and jellyfish).

Understanding Matter: Chemistry

Chemistry is all about matter, which is anything that has mass and takes up space. In third grade, students begin to learn about the basic properties of matter.

States of Matter

Matter can exist in three main states:

1. Solid: Has a definite shape and volume (e.g., ice, wood, rocks).
2. Liquid: Has a definite volume but takes the shape of its container (e.g., water, juice).
3. Gas: Has no definite shape or volume and can fill any space (e.g., air, steam).

Changes in Matter

Matter can change from one state to another through physical and chemical changes.

- Physical Changes: Changes that affect one or more physical properties without altering the substance (e.g., melting ice, breaking a glass).
- Chemical Changes: Changes that create new substances (e.g., burning wood, rusting iron).

Exploring Forces: Physics

Physics is the study of forces and energy. It explains how things move and interact with each other.

Forces and Motion

A force is a push or pull that can cause an object to move or change direction. Here are some common types of forces:

- Gravity: The force that pulls objects toward each other, like the Earth pulling us down.
- Friction: The force that resists motion when two surfaces rub against each other (e.g., rubbing hands together).
- Magnetism: The force that attracts or repels certain materials (e.g., magnets).

Simple Machines

Simple machines help us do work more easily. Here are six types of simple machines:

1. Lever: A rigid bar that pivots on a point (fulcrum) to lift or move heavy objects.
2. Pulley: A wheel with a rope that helps lift things.
3. Inclined Plane: A flat surface that is tilted, which makes it easier to raise objects (like a ramp).
4. Wedge: A tool that has a thick end and a thin end, used to split things apart (like an axe).
5. Screw: An inclined plane wrapped around a cylinder, used to hold things together (like a screw).
6. Wheel and Axle: A circular object (wheel) that turns around a central rod (axle), which makes moving easier (like a car wheel).

Exploring Our Planet: Earth Science

Earth Science helps us learn about our planet and everything on it, including the atmosphere, oceans, and landforms.

The Layers of the Earth

The Earth is made up of several layers:

1. Crust: The outermost layer where we live; it includes the land and ocean floors.
2. Mantle: The layer beneath the crust; it is made of hot, semi-solid rock.
3. Outer Core: A liquid layer made of molten metal, surrounding the inner core.

4. Inner Core: The innermost layer, which is solid and made of iron and nickel.

Weather and Climate

Weather refers to the day-to-day conditions in the atmosphere, such as temperature, precipitation, and wind. Climate, on the other hand, is the long-term average of weather patterns in a specific area.

Water Cycle

The water cycle is a continuous process that describes how water moves on Earth. It involves several key steps:

1. Evaporation: Water from oceans, rivers, and lakes turns into vapor and rises into the air.
2. Condensation: Water vapor cools down and turns back into liquid droplets, forming clouds.
3. Precipitation: When the clouds get heavy, water falls back to the Earth as rain, snow, sleet, or hail.
4. Collection: Water gathers in oceans, rivers, and lakes, and the cycle starts again.

Exploring the Universe: Astronomy

Astronomy is the study of space and everything in it, including stars, planets, and galaxies.

Our Solar System

The solar system consists of the Sun and all the celestial bodies that orbit around it, including:

- Planets: There are eight planets in our solar system—Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune.
- Moons: Many planets have moons that orbit around them.
- Asteroids: Small rocky bodies that mostly exist in the asteroid belt between Mars and Jupiter.
- Comets: Icy bodies that release gas and dust, often forming a tail when they come close to the Sun.

Stars and Galaxies

Stars are giant balls of hot gas that emit light and heat. Our Sun is a star! Galaxies are vast systems that contain billions of stars, along with gas and dust. The Milky Way is the galaxy that contains our solar

system.

The Importance of Science

Science is important for many reasons:

- Understanding the World: It helps us make sense of how things work and why they happen.
- Problem Solving: Science encourages critical thinking and problem-solving skills.
- Innovation: Many modern technologies and advancements in medicine come from scientific discoveries.
- Environmental Awareness: Science helps us understand our impact on the environment and how we can protect it.

In conclusion, science is a delightful and essential subject that helps us learn about the world, understand its complexities, and appreciate the wonders of nature. As you continue your journey through third grade and beyond, remember to ask questions, explore, and enjoy the incredible discoveries that science has to offer!

Frequently Asked Questions

What is the water cycle?

The water cycle is the process where water moves from the ground to the sky and back again. It includes evaporation, condensation, and precipitation.

Why do plants need sunlight?

Plants need sunlight to make their food through a process called photosynthesis. Sunlight helps them convert water and carbon dioxide into sugar and oxygen.

What are the three states of matter?

The three states of matter are solid, liquid, and gas. Solids have a fixed shape, liquids take the shape of their container, and gases fill the space they are in.

What is a habitat?

A habitat is a place where an animal or plant lives and grows. It provides food, water, shelter, and everything they need to survive.

How do magnets work?

Magnets work by creating a magnetic field that attracts certain metals like iron. They can attract or repel other magnets depending on how they are placed.

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