

Science Curriculum

GRADE 4, 5, 6

PHYSICAL SCIENCE

Materials

- Materials that absorb water
- Materials that float or sink
- Materials that undergo decay
- Effect of decaying materials on health
- Proper waste disposal based on properties of materials
- Useful and harmful materials

Changes

- Changes when bent, pressed, hammered, or cut
- Changes when exposed to certain conditions or mixed with certain materials
- Changes due to oxygen
- Changes due to heat
- 5Rs in waste management: recycle, reduce, reuse, recover, and repair

Mixtures

- Homogeneous and heterogeneous mixtures
- Techniques in separating mixtures, including decantation, evaporation, filtration, sieving, and using a magnet

Force

- Forces that can change the shape, size, or movement of objects
- Magnets
- Friction

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Gravity

Motion

Measuring time, speed, and distance using standard units

Work and Machines

Simple machines

Energy

Light, heat, sound, electricity

How light, heat, and sound travel

Properties and characteristics of light, heat, and sound

How to protect against excessive exposure to light, heat, and sound

How black and colored objects affect the ability to absorb heat

Why some materials are good conductors of heat and electricity

Electricity and magnetism

Simple DC circuit

Infer that electricity can be used to produce magnets

Energy transformation

How sound, heat, light, and electricity can be transformed

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LIFE SCIENCE

Humans

Major organs

- Major organs of the body
- Caring for the major organs
- Diseases that affect the major organs

Human reproductive system

- Parts and functions
- Changes that occur during puberty
- Menstrual cycle
- Health and hygiene

Other human body systems

- Musculo-skeletal system
- Integumentary system
- Digestive system
- Circulatory system
- Excretory system
- Respiratory system
- Nervous system
- How the systems work together

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Animals

- Body parts that let animals adapt to life on land or in water
- Body movements of animals
- Animal reproduction – different modes of reproduction in animals such as butterflies, mosquitoes, frogs, cats, and dogs
- Vertebrates vs. invertebrates

Plants

Plant structure

- Specialized structures of terrestrial and aquatic plants

Plant reproduction

- Reproductive parts in plants
- Modes of reproduction in flowering and nonflowering plants – including moss, fern, and mango
- How non-flowering plants reproduce – spore-bearing and cone-bearing plants

Life Cycles

- Life cycles of different organisms

Ecosystems

Interactions among living things

- Types of beneficial interactions
- Types of harmful interactions

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Ecosystems

- Estuaries
- Intertidal zones
- Tropical rainforests
- Coral reefs
- Mangrove swamps
- Interaction among living and nonliving things in different ecosystems

EARTH SCIENCE

Soil

- Types of soil
- Weathering and soil erosion
 - How rocks turn into soil
 - Effects of soil erosion

Water

- Importance of water
- Sources of water
- The water cycle

Weather

- Components of weather
- Weather instruments
- Weather chart

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- Weather patterns and seasons in the Philippines
- Safety precautions during different weather conditions
- Changes in the weather before, during, and after a typhoon
- Preparing an individual emergency kit

The Earth

Forces that change the Earth's surface

- Earthquakes
- Volcanic eruptions

Movements of the Earth

- Rotation
- Revolution

The Sun

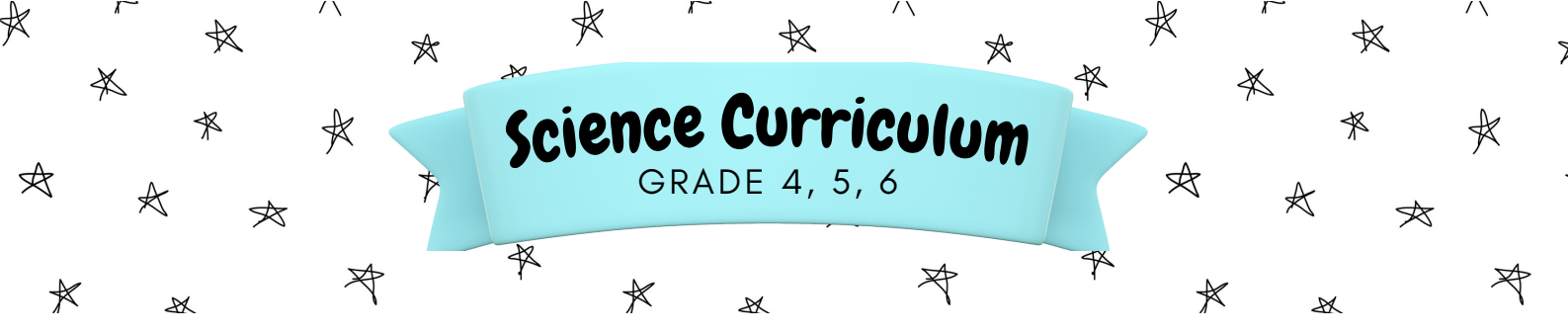
- The sun as the main source of heat and light on Earth
- Changes in the position and length of shadows during the day
- Role of the sun in the water cycle

Moon

- Phases of the moon

Stars

- Constellations or star patterns at different times of the year

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Planets of the Solar System

- Characteristics of the planets in the solar system
- The planets' size and relative distance from the Sun