Science Curriculum

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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 mongo
- [ ] 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