

3rd Grade Syllabus

Science

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First Semester

Life Science

- 3.LS1.1 - Analyze the internal and external structures that aquatic and land animals and plants have to support survival, growth, behavior, and reproduction.
- 3.LS1.2 - Construct an argument to explain why some animals benefit from forming groups.
- 3.LS4.1 - Explain the cause and effect relationship between a naturally changing environment and an organism's ability to survive.
- 3.LS4.2 - Infer that plant and animal adaptations help them survive in land and aquatic biomes.
- 3.LS4.3 - Explain how changes to an environment's biodiversity influence human resources.

Earth Science

- 3.ESS1.1 - Use data to categorize the planets in the solar system as inner or outer planets according to their physical properties.
- 3.ESS2.1 - Explain the cycle of water on Earth.
- 3.ESS2.2 - Associate major cloud types (cumulus, cumulonimbus, cirrus, stratus, nimbostratus) with weather conditions.
- 3.ESS2.3 - Use tables, graphs, and tools to describe precipitation, temperature, and wind (direction and speed) to determine local weather and climate.
- 3.ESS2.4 - Incorporate weather data to describe major climates (polar, temperate, tropical) in different regions of the world.

Second Semester

Physical Science

- 3.PS1.1 - Describe the properties of solids, liquids, and gases and identify that matter is made up of particles too small to be seen
- 3.PS1.2 - Differentiate between changes caused by heating or cooling that can be reversed and that cannot.
- 3.PS1.3 - Describe and compare the physical properties of matter including color, texture, shape, length, mass, temperature, volume, state, hardness, and flexibility.
- 3.PS2.1 - Explain the cause and effect relationship of magnets.
- 3.PS2.2 - Solve a problem by applying the use of the interactions between two magnets.
- 3.PS3.1 - Recognize that energy is present when objects move; describe the effects of energy transfer from one object to another.
- 3.PS3.2 - Apply scientific ideas to design, test, and refine a device that converts electrical energy to another form of energy, using open or closed simple circuits.
- 3.PS3.3 - Evaluate how magnets cause changes in the motion and position of objects, even when the objects are not touching the magnet.

Engineering Design

- 3.ETS1.1 - Design a solution to a real-world problem that includes specified criteria for constraints.
- 3.ETS1.2 - Apply evidence or research to support a design solution.
- 3.ETS2.1 - Identify and demonstrate how technology can be used for different purposes.