Tennessee Science

# Third Grade

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| **Matter and Its Interactions** 3.PS1 | 1 | **Develop a model of solids, liquids, and gasses to describe that each state of matter is made of particles too small to be seen.** 3.PS1.1 |
| | 2 | **Construct an explanation about the effects of heating and cooling a substance differentiating between changes that can be reversed (i.e., freezing & melting) and those that cannot (e.g., baking a cake or burning fuel).** 3.PS1.2 |
| | 3 | **Construct an argument based on evidence that materials have both fixed and changing properties, some of which are useful for identification of a material.** 3.PS1.3 |
| **Motion and Stability: Forces and Interactions** 3.PS2 | 1 | **Explain cause and effect relationships of forces that cannot be seen including interactions between two objects not in contact with each other (i.e., static electricity, magnetism and gravity).** 3.PS2.1 |
| **Energy** 3.PS3 | 1 | **Make observations of sound, light, heat, and motion to collect evidence that energy is present in a system.** 3.PS3.1 |
| | 2 | **Develop a model to show that energy can be transferred from place to place by electric currents in a system (e.g., open, closed, simple, parallel, series circuits).** 3.PS3.2 |
| | 3 | **Evaluate how magnets cause changes in the motion and position of objects, even when the objects are not touching the magnet.** 3.PS3.3 |
| **From Molecules to Organisms: Structures and Processes** 3.LS1 | 1 | **Use graphical representations to compare how species including humans and other organisms have unique and diverse life cycles.** 3.LS1.1 |
| | 2 | **Analyze the internal and external structures that aquatic and land organisms have to support survival, growth, behavior, and reproduction.** 3.LS1.2 |
| **Ecosystems: Interactions, Energy, and Dynamics** 3.LS2 | 1 | **Obtain information to compare various ways that groups organize (e.g., specialized roles for members vs same roles for members) to explain the benefits of animal group behavior.** 3.LS2.1 |
| **Biological Change: Unity an** | 1 | **Use evidence to explain the cause and effect relationship between a naturally hanging habitat and how well an organism survives.** 3.LS4.1 |

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| | 2 **Use evidence to determine the changes between an environment's biodiversity and human resources.** 3.LS4.2 |
| **Earth's Place in the Universe** 3.ESS1 | 1 **Use data to categorize different bodies in our solar system including inner and outer planets, moons, asteroids, comets, and meteoroids according to their physical properties and motion.** 3.ESS1.1 |
| **Earth's Systems** 3.ESS2 | 1 **Develop a model to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.** 3.ESS2.1 |
| | 2 **Develop a model to describe the cycling of water through Earth's spheres driven by energy from the sun.** 3.ESS2.2 |
| | 3 **Use tables, graphs, and tools to describe precipitation, temperature, clouds, and wind (i.e., direction and speed) to predict local weather and climate.** 3.ESS2.3 |
| | 4 **Incorporate weather data to describe major climates (e.g., polar, temperate, tropical) in different regions of the world.** 3.ESS2.4 |
| **Earth and Human Activity** 3.ESS3 | 1 **Evaluate existing solutions that reduce the impact of natural hazards (e.g., fires, landslides, earthquakes, volcanic eruptions, floods, severe weather) on the environment.** 3.ESS3.1 |
| **Engineering Design** 3.ETS1 | 1 **Design a solution to a real-world problem that includes specified criteria and constraints.** 3.ETS1.1 |
| | 2 **Apply evidence or research to support a design solution.** 3.ETS1.2 |