



Science Grade 5 Priority Standards

1st Quarter
PS – Physical Science
→ 5.PS1.A.1 – Develop a model to describe that matter is made of particles too small to be seen. → 5.PS1.A.2 – Measure and graph quantities to provide evidence that regardless of the type of change that occurs when heating, cooling, or mixing substances, the total weight of matter is conserved. → 5.PS1.B.1 – Plan and conduct investigations to separate the components of a mixture/solution by their physical properties (i.e., sorting, filtration, magnets, screening). → 5.PS1.B.2 – Conduct an investigation to determine whether the combining of two or more substances results in new substances.
LS – Life Science
→
ESS – Earth and Space Science
→
ETS – Engineering Technology and Application of Science
→
2nd Quarter

PS – Physical Science
→ 5.PS3.D.1 – Use models to describe that energy stored in food (used for body repair, growth, motion, and to maintain body warmth) was once energy from the sun.
LS – Life Science
→ 5.LS1.C.1 – Support an argument that plants get the materials (i.e. carbon dioxide, water, sunlight) they need for growth chiefly from air and water. → 5.LS2.B.1 – Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.
ESS – Earth and Space Science
→
ETS – Engineering Technology and Application of Science
→
3rd Quarter
PS – Physical Science
→ 5.PS2.B.1 – Support an argument that the gravitational force exerted by Earth on objects is directed toward the planet's center. → 5.PS4.A.1 → Develop a model to describe that objects can be seen only when light is reflected off them or when they produce their own light.
LS – Life Science
→
ESS – Earth and Space Science
→ 5.ESS1.A.1 – Support an argument that relative distances from Earth affects the apparent brightness of the sun compared to other stars.

- 5.ESS1.B.1 - Make observations during different seasons to relate the amount of daylight to the time of year.
- 5.ESS1.B.2 - Represent data in graphical displays to reveal patterns of daily changes in length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.
- 5.ESS2.A.1 - Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
- 5.ESS2.C.1 - Describe and graph the amounts and percentages of water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth.

ETS - Engineering Technology and Application of Science

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4th Quarter

PS - Physical Science

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LS - Life Science

- 5.LS1.A.1 - Compare and contrast the major organs/organ systems (e.g. support, reproductive, digestive, transport/circulatory, excretory, response) that perform similar functions for animals belonging to different vertebrate classes.

ESS - Earth and Space Science

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ETS - Engineering Technology and Application of Science

- 5.ETS1.A.1 - Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
- 5.ETS1.B.1 - Generate and compare multiple possible solutions to a problem based on how well each is likely to meet the criteria and

constraints of the problem.

- 5.ETS1.C.1 – Plan and carry out fair tests in which variables are controlled and failure points are considered to identify aspects of a model or prototype that can be improved.