

West Northfield School District #31 Science Curriculum

Grade Five

Physical, Life, and Earth Space Sciences

5-PS1 Matter and Its Interaction

1. 5-PS1-1 Develop a model to describe that matter is made of particles too small to be seen.
2. 5-PS1-2 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.
3. 5-PS1-3 Make observations and measurements to identify materials based on their properties.
4. 5-PS1-4 Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

5-PS2 Motion and Stability: Forces and Interactions

5. 5-PS2-1 Support an argument that the gravitational force exerted by Earth on objects is directed down.

5-PS3 Energy

6. 5-PS3-1 Use models to describe that energy in animals' food (used for body repair, growth, and motion and to maintain body warmth) was once energy from the sun.

5-LS1 From Molecules to Organisms: Structures and Processes

7. 5-LS1-1 Support an argument that plants get the materials they need for growth chiefly from air and water.

5-LS2 Ecosystems: Interactions, Energy, and Dynamics

8. 5-LS2-1 Develop a model to describe the movement of matter among plants, animals, decomposers, and the environment.

5-ESS1 Earth's Place in the Universe

9. 5-ESS1-1 Support an argument that differences in the apparent brightness of the sun compared to other stars is due to their relative distances from Earth.

10. [5-ESS1-2](#) Represent data in graphical displays to reveal patterns of daily changes in the length and direction of shadows, day and night, and the seasonal appearance of some stars in the night sky.

5-ESS2 Earth's Systems

11. [5-ESS2-1](#) Develop a model using an example to describe ways in which the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
12. [5-ESS2-2](#) 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.

5-ESS3 Earth and Human Activity

13. [5-ESS3-1](#) Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.