

2018-2019 5th grade Science Dates and Standards

Week	Dates	Standards	Notes
1	August 13-17	5.ETS1.1 Research, test, re- test, and communicate a design to solve a problem. 5.ETS1.2 Plan and carry out tests on one or more elements of a prototype in which variables are controlled and failure points are considered to identify which elements need to be improved. Apply the results of tests to redesign the prototype.	
2	August 20-24	5.LS1.1 Compare and contrast animal responses that are instinctual versus those that are gathered through senses, processed, and stored as memories to guide their actions.	
3	August 27-31	5.LS1.1	
4	September 4-7	5.LS3.1 Distinguish between inherited characteristics and those characteristics that result from a direct interaction with the environment.	
5	September 10-14	5.LS3.2 Provide evidence and analyze data that plants and animals have traits inherited from parents and that variations of these traits exist in a group of similar organisms.	
6	September 17-21	5.LS3.1 and 5.LS3.2	
7	September 24-28	5.LS4.1 Analyze and interpret data from fossils to describe types of organisms and their environments that existed long ago. Compare similarities and differences of those to living organisms and their environments. Recognize that most kinds of animals (and plants) that once lived on Earth are now extinct.	
8	October 1-5	5.LS4.2 Use evidence to construct an explanation for how variations in characteristics among individuals within the same species may provide advantages to those individuals in their survival and reproduction.	
9	October 15-19	5.LS4.1 and 5.LS4.2	
1	October 22-26	5.ETS1.3 Describe how failure provides valuable information toward finding a solution. 5.ETS2.1 Use appropriate measuring tools, simple hand tools, and fasteners to construct a prototype of a new or improved technology.	
2	October 29- November 2	5.ESS1.1 Explain that differences in apparent brightness of the sun compared to other stars are due to their relative distances from the Earth.	
3	November 5-9	5.ESS1.2 Research and explain the position of the Earth and the solar system within the Milky Way galaxy, and compare the size and shape of the Milky Way to other galaxies in the universe.	
4	November 12-16	5.ESS1.3 Use data to categorize different bodies in our solar system including moons, asteroids, comets, and meteoroids according to their physical properties and motion.	
5	November 26-30	5.ESS1.4 Explain the cause and effect relationship between the positions of the sun, earth, and moon and resulting eclipses, position of constellations, and appearance of the moon.	
6	December 3-7	5.ESS1.5 Relate the tilt of the Earth's axis, as it revolves around the sun, to the varying intensities of sunlight at different latitudes. Evaluate how this causes changes in day-length and seasons.	
7	December 10-14	5.ESS1.6 Use tools and describe how stars and constellations appear to move from the Earth's perspective throughout the seasons.	
8	December 17-21	5.ESS1.7 Use evidence from the presence and location of fossils to determine the order in which rock strata were formed.	

1	January 7-11	5.ETS2.2 Describe how human beings have made tools and machines (X-ray cameras, microscopes, satellites, computers) to observe and do things that they could not otherwise sense or do at all, or as quickly or efficiently. 5.ETS2.3 Identify how scientific discoveries lead to new and improved technologies.	
2	January 14-18	5.PS1.1 Analyze and interpret data from observations and measurements of the physical properties of matter to explain phase changes between a solid, liquid, or gas.	
3	January 22-25	5.PS1.2 Analyze and interpret data to show that the amount of matter is conserved even when it changes form, including transitions where matter seems to vanish.	
5	January 28-February 1	5.PS1.3 Design a process to measure how different variables (temperature, particle size, stirring) affect the rate of dissolving solids into liquids.	
4	February 4-8	5.PS1.4 Evaluate the results of an experiment to determine whether the mixing of two or more substances result in a change of properties.	
5	February 11-14	5.PS2.1 Test the effects of balanced and unbalanced forces on the speed and direction of motion of objects.	
6	February 19-22	5.PS2.2 Make observations and measurements of an object's motion to provide evidence that pattern can be used to predict future motion.	
7	February 25-March 1	5.PS2.3 Use evidence to support that the gravitational force exerted by Earth on objects is directed toward the Earth's center. 5.PS2.4 Explain the cause and effect relationship between two factors (mass and distance) that affect gravity.	
8	March 4-8	5.PS2.5 Explain how forces can create patterns within a system (moving in one direction, shifting back and forth, or moving in cycles), and describe conditions that affect how fast or slowly these patterns occur.	
1	March 18-22	Review	
2	March 25-29	Review	
3	April 1-5	Review	
4	April 8-12	Review	
5	April 15-18	5.ETS1.1 Research, test, re- test, and communicate a design to solve a problem.	
6	April 22-26	5.ETS1.2 Plan and carry out tests on one or more elements of a prototype in which variables are controlled and failure points are considered to identify which elements need to be improved. Apply the results of tests to redesign the prototype.	
7	April 29- May 3	5.ETS1.3 Describe how failure provides valuable information toward finding a solution.	
8	May 6-10	5.ETS2.1 Use appropriate measuring tools, simple hand tools, and fasteners to construct a prototype of a new or improved technology.	
9	May 13-17	5.ETS2.2 Describe how human beings have made tools and machines (X-ray cameras, microscopes, satellites, computers) to observe and do things that they could not otherwise sense or do at all, or as quickly or efficiently.	
10	May 20-24	5.ETS2.3 Identify how scientific discoveries lead to new and improved technologies.	