5th Grade “I Can Statements” Science

Parents,

These are the skills that your 5th grader should master in the FIRST nine weeks of school.

Standard	“I Can Statement”
L.5.3A1	**I can understand photosynthesis and how plants convert energy from the sun, water from the soil, and carbon dioxide from the air into chemical energy.**
L.5.3A2	**I can identify how photosynthesis occurs either naturally or artificially in environments that do not receive direct sunlight.**
L.5.3B.1	**I can evaluate scientific information regarding different ecosystems and organisms they support.**
L.5.3B.2	**I can classify animals as producers, consumers, and decomposers and trace the energy flow in a food chain to explain how each obtains energy.**
L.5.3B.3	**I can design food webs and justify the effects of the removal and/or introduction of additional species. (i.e. invasive species)**
L.5.3B.4	**I can communicate information that explains the human position in food webs and human impacts on ecosystems.**
E.5.10.1	**I can identify Earth’s natural resources and ideas that communities can use to conserve those resources. (e.g., reducing emissions, introducing agricultural practices to improve soil quality)**
E.5.10.2	**I can design a process for preparing communities to withstand manmade or natural disasters. (e.g., removing oil from water, preparing for a hurricane)**

5th Grade "I Can Statements" Science

Parents,

These are the skills that your 5th grader should master in the SECOND nine weeks of school.

Standard	"I Can Statement"
E.5.8A.1	**I can develop and use models of Earth's solar system to demonstrate size, composition, location, and order of planets as they orbit the sun.**
E.5.8A.2	**I can identify, argue and support with evidence, why the sun appears brighter than other stars.**
E.5.8A.3	**I can describe how constellations appear to move from Earth's viewpoint throughout the seasons. (e.g., constellations Ursa Major, Ursa Minor, and Orion)**
E.5.8A.4	**I can support claims about the importance of astronomy in navigation and exploration using terminology on technology such as telescopes, compasses, and star charts.**
E.5.8B.1	**I can identify the phases of the moon from Earth's perspective.**
E.5.8B.1	**I can analyze and interpret data from observations and research from different sources (e.g., NASA, NOAA, or the USGS) to explain patterns of the location, movement, and appearance of the moon throughout a month and the course of a year.**
E.5.8B.2	**I can develop and use a model of the Earth- Sun- Moon system to analyze the cyclic patterns of lunar phases, solar and lunar eclipses, and seasons.**
E.5.8B.3	**I can create and use models explain the factors (e.g., tilt, revolution, and angle of sunlight) that result in Earth's seasonal changes.**
E.5.8B.4	**I can analyze how our understanding of the solar system has changed over time. (e.g. Aristotle, Ptolemy, Copernicus, and Galileo)**
P.5.5A.1	**I can obtain and evaluate information to describe basic physical properties of atoms and molecules.**

P.5.5A.2	**I can collect, analyze, and interpret data from measurements to classify materials as solids, liquids, and gases. (e.g. volume, shape, movement, and spacing of particles)**
P.5.5A.3	**I can analyze matter through observations and measurements to classify materials. (i.e., powders, electrical conductivity, thermal conductivity, response to magnetic forces, solubility, or density.)**
P.5.5A.4	**I can make and test how the density of an object affects whether it sinks or floats in a liquid.**
P.5.5A.5	**I can design a vessel that can safely transport a dense substance (e.g., syrup, coins, marbles) through water at various distances and under differing conditions.**
P.5.5A.5	**I can use an engineering design to define a problem, design, construct, evaluate, and improve the vessel in above statement.**