

Wyoming Public Schools 6th Grade Science Essential Standards

Science Essential Standard	Student Friendly Language	Family Friendly Language
MS-PS1-2 Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.	I can look at data from before and after substances mix to see if a chemical change happened.	Your child is learning to study and compare the properties of substances before and after they interact to figure out if a chemical reaction occurred.
MS-PS2-1 Apply Newton's Third Law to design a solution to a problem involving the motion of two colliding objects.	I can use Newton's Third Law to design a solution for when two objects collide, knowing each pushes on the other equally.	Your child is learning to apply Newton's Third Law—when one object pushes on another, the second pushes back with equal force—to design solutions for problems involving colliding objects.
MS-LS1-5 Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms	I can explain, using evidence, how both the environment and genetics affect how plants and animals grow.	Your child is learning how both genetics and the environment influence how living things grow.
MS-LS1-7 Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.	I can show how food changes into new molecules that help living things grow or give them energy.	Your child is learning how food changes into molecules that help living things grow or give them energy.
MS-LS2-1 Analyze and interpret data to provide evidence for the effects of resource availability on organisms and populations of organisms in an ecosystem.	I can use data to show how the amount of resources affects living things and their populations.	Your child is learning to analyze data to understand how the availability of resources impacts individual organisms and entire populations in an ecosystem.
MS-LS2-2 Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.	I can explain and predict how living things interact in different ecosystems.	Your child is learning to explain and predict patterns of how plants, animals, and other organisms interact with each other in different ecosystems.
MS-LS2-4 Construct an argument supported by empirical evidence that changes to physical or biological components of an ecosystem affect populations.	I can explain, using evidence, how changes to living or nonliving parts of an ecosystem affect the populations living there.	Your child is learning how changes in an ecosystem's living or nonliving parts can cause populations to grow or shrink.