

Wyoming Public Schools 4th Grade Science Essential Standards

Science Essential Standard	Student Friendly Language	Family Friendly Language
4-PS3-1 Use evidence to construct an explanation relating the speed of an object to the energy of that object.	I can use evidence to explain how an object's speed is connected to its energy.	Your child is learning to explain, using evidence, that the faster something moves, the more energy it has.
4-PS3-2 Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat, and electric currents.	I can observe and show that energy moves from place to place through sound, light, heat, and electricity.	Your child is learning to observe and gather evidence that energy can travel from one place to another through sound, light, heat, and electric currents.
4-LS1-1 Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.	I can explain how the parts inside and outside of plants and animals help them live, grow, act, and reproduce.	Your child is learning that plants and animals have internal (inside) and external (outside) structures that help them survive, grow, behave, and reproduce, and they can explain this using evidence.
4-ESS2-1 Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.	I can observe and measure how water, ice, wind, or plants change rocks and soil over time.	Your child is learning to observe and measure how natural forces like water, ice, wind, or plants cause weathering and erosion, and how fast these changes happen.
4-ESS2-2 Analyze and interpret data from maps to describe patterns of Earth's features.	I can use maps to find and explain patterns in Earth's land and water features.	Your child is learning to study data from maps to identify and describe patterns in Earth's features, such as mountains, rivers, oceans, and other landforms.
4-ESS3-2 Obtain and combine information to describe that energy and fuels are derived from natural resources and that their uses affect the environment.	I can explain that energy and fuels come from natural resources, and using them changes the environment.	Your child is learning that energy and fuels come from natural resources like sunlight, wind, water, oil, and coal, and that using these resources affects the environment in different ways.
3-5 ETS1-1 Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.	I can describe a simple problem we need to solve, what will make it successful, and any limits on materials, time, or cost.	Your child is learning to identify a simple problem that meets a need or want, decide what success looks like, and consider limits such as materials, time, or cost.
3-5 ETS1-2 Generate and compare multiple possible	I can think of different solutions to a problem and compare them to	Your child is learning to come up with several ways to solve a

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solutions to a problem based on how well each is likely to meet the criteria and constraints of a problem.	see which one best meets the goals and limits.	problem and compare them to decide which one works best within the given goals and limits, like materials, time, or cost.
3-5 ETS1-3 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.	I can test my model or prototype fairly by changing only one thing at a time and looking for problems to fix.	Your child is learning to run fair tests on a model or prototype by controlling variables, checking for weak points, and finding ways to improve the design.