Content Standards	SCIENCE - 8	1	2	3	4	5	6	7	8
	Matter and its Interactions								
MS-PS1-1	I can make models to show how atoms are arranged in simple molecules (like ammonia), as well as extended structures (like sodium chloride).								
MS-PS1-2	I can tell you if a chemical reaction has occurred by looking closely at data on the properties of substances before and after they interact with each other.								
MS-PS1-3	I can gather and understand information to explain that synthetic materials are actually made from natural resources.								
MS-PS1-4	I can make a model that predicts and describes how a pure substance changes when thermal energy is added or taken away.								
MS-PS1-5	I can make and use a model to show that the total number of atoms does not change during a chemical reaction. I know that mass is conserved during a chemical reaction.								
MS-PS1-6	I can build, test, and modify a device that either releases or absorbs thermal energy by chemical processes.								
	Motion and Stability: Forces and Interactions								
MS-PS2-1	I can apply Newton's Third Law to make a solution to a problem involving the motion of two colliding objects.								
MS-PS2-2	I can plan an investigation to prove that the change in an object's motion depends on the total forces on the object, and the mass of the object.								
MS-PS2-3	I can ask questions about data to figure out what affects the strength of electric and magnetic forces.								
MS-PS2-4	I can tell you what I know about gravitational interactions. I know that they depend on the masses of interacting objects.								
MS-PS2-5	I can carry out and evaluate an investigation to show that fields exist between objects that exert forces on each other even though the objects do not touch.								
	Energy								
MS-PS3-1	I can make and interpret graphs to show the relationship of kinetic energy to the mass of an object, and the relationship of kinetic energy to the speed of an object.								
MS-PS3-2	I can make a model to demonstrate that when the arrangement of objects interacting at a distance changes, different amounts of potential energy are stored in the system.								
MS-PS3-3	I can design, construct, and test a device that will either minimize or maximize thermal energy transfer.								
MS-PS3-4	I can conduct experiments to find out more about the relationships among energy transfer, matter, mass, and kinetic energy of the particles as measured by the temperature of the sample.								
MS-PS3-5	I can develop and present arguments to demonstrate that when the kinetic energy of an object changes, energy is transferred to or from the object.								
	Waves and Their Technologies for Information Transfer								
MS-PS4-1	I can talk about what models for waves would look like. I can describe how the amplitude of a wave is related to the energy in that wave.								
MS-PS4-2	I can make a model to show that waves are reflected, absorbed, or transmitted through different materials.								
MS-PS4-3	I can use scientific and technical information to prove that digitized signals are a more reliable way to encode and communicate information than analog signals.								
	Engineering Design								
MS-ETS1-1	I can develop a successful solution to a design problem using scientific principles. I can compare the pros and cons of my solution in order to determine if it is reasonable.								
MS-ETS1-2	I can test my design solutions to determine whether or not they will solve the problem.								
MS-ETS1-3	I can use the data gathered from tests to determine which design solution will best solve the problem.								
MS-ETS1-4	Develop a model of the design that can be tested and modified to create a successful prototype.								

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