

NGSS MS PHYSICAL SCIENCE

NGSS Standard	Primary Video Matches	Secondary / Possible Matches	Justification
MS-PS1-1 Develop models of atomic structure	Atoms & Periodic Table	Physical & Chemical Change Macromolecules	Episode teaches protons, neutrons, electrons, and periodic table structure, directly supporting atomic models.
MS-PS1-2 Analyze properties of substances	Physical Properties of Matter Density	Heat Transfer Atoms & Periodic Table	Students compare mass, volume, density, and states of matter, matching analysis of substance properties.
MS-PS1-3 Gather and interpret data on synthetic materials	Macromolecules	Physical & Chemical Change What Makes You Move	Macromolecules discuss structure/function of biological and artificial molecules; What Makes You Move includes artificial systems.
MS-PS1-4 Evidence of chemical reactions	Physical & Chemical Change	Carbon Cycle Macromolecules	Demonstrations show evidence of chemical reactions and formation of new substances.
MS-PS2-2 Forces & motion	The Drone Dilemma How Planes Really Fly Gravity vs. Drag	Gravity & Orbits Storm on Saturn	Thrust, drag, lift, gravity, and atmospheric drag directly support force/motion analysis.
MS-PS2-3 Electric & magnetic forces	Electrical Encounter	Exploring Energy	Series/parallel circuits, conductors, insulators, and current flow align with electric force concepts.
MS-PS3-1 Energy forms	Exploring Energy	Electrical Encounter Heat Transfer The Drone Dilemma	Explicit coverage of light, heat, sound, electrical, chemical, potential, and kinetic energy.
MS-PS3-2 Energy transfer	Heat Transfer	Exploring Energy Hurricanes Storm on Saturn	Conduction, convection, radiation, and atmospheric energy transfer match NGSS expectations.
MS-PS3-3 Design a device to minimize/maximize thermal energy transfer	Heat Transfer	If We Built a House Gravity vs. Drag	Heat Transfer covers insulation and energy flow; re-entry capsule design involves heat shielding.
MS-PS3-4 Investigate relationships among energy transfer, matter type, mass, and temperature	Heat Transfer	Density Physical Properties of Matter	Heat Transfer directly addresses how materials respond to heating.
MS-PS3-5 Energy in everyday technologies	Exploring Energy	Electrical Encounter If We Built a House	Solar energy systems, circuits, and building design illustrate energy use in technology.