

PHYSICAL SCIENCES

GRADE	NGSS	STEMSCOPES LESSON	SUBJECT AREA	MATERIAL TYPE	PHYSICAL MATERIALS
G6	MS-PS3-3 MS-PS3-4 MS-ETS1-4	Thermal Energy Transfer	Thermodynamics	Equipment	heat plates
	MS-PS3-1 MS-PS3-5	Kinetic Energy	Forces	Equipment	toy cars, tracks, loop track w/marbles, slinkies, levers, blocks, pulleys, weights, bike wheel w/turn platform
	MS-PS3-4	Energy Transfer and Temperature	Chemistry	Equipment	glassware, scales, hot plates, mixer plate, bunsen burner, tongs, mits, safety goggles, pH meters, pH, temperature vernier probes, test tube holders, pH strips, droppers, molecule models, ring stands, pipette

LIFE SCIENCES

GRADE	NGSS	STEMSCOPES LESSON	SUBJECT AREA	MATERIAL TYPE	LIFE SCIENCE MATERIALS
G6	MS-LS1-1	Cells	Biology	Models	chloroplast, animal cells, plant cell, meiosis & mitosis models
	MS-LS1-2	Anatomy of Cells	Biology	Kit	microscope kits
	MS-LS1-2	Anatomy of Cells	Biology	Equipment	microscopic slides: plants, animal, human, fungi, virus,
	MS-LS1-2	Anatomy of Cells	Biology	Models	chloroplast, animal cells, plant cell, meiosis & mitosis models
	MS-LS1-3	Bodies and Systems	Human Biology	Models	hearts, torso, ears, eyes, lungs, head & neck, tongue, teeth, mouth, brains, muscle types, reproductive organs, assorted teeth to test calcium
	MS-LS1-3	Bodies and Systems	Human Biology	Specimens	full skeleton, arms, legs, feet, hands, vertebrae (backbone), mini human skeletons, human skulls
	MS-LS1-3	Bodies and Systems	Human Biology	Games	circulation game
	MS-LS1-3	Bodies and Systems	Human Biology	Equipment	stethoscopes
	MS-LS1-4	Reproduction in Plants and Animals	Biology	Kit	lego kits
	MS-LS1-5	Growth of Organisms	Biology	Specimens	life cycles of frogs, moths, butterflies, silkworms
G7	MS-LS2-1	Competition In Ecosystems	Ecosystems	Specimens	see specimens list
	MS-LS2-1	Organism Interactions In Ecosystems	Ecosystems	Games	games/cards
	MS-LS1-6	Introduction to Photosynthesis	Botany	Specimens	bamboo, lsee specimens list
	MS-LS1-6	Introduction to Photosynthesis	Botany	Specimens	tree rounds, cut wood, seeds, cones,
	MS-LS1-6	Introduction to Photosynthesis	Botany	Equipment	plant press, hand lenses,
	MS-LS1-6	Introduction to Photosynthesis	Botany	Models	flower, chloroplast, plant cells, vinyl stick on board,
	MS-LS2-2	Relationships in Ecosystems	Ecosystems	Specimens	specimens list
	MS-LS2-3	Flow of Energy in Ecosystems	Ecosystems	Specimens	specimens list
	MS-LS2-4	Dynamic Nature in Ecosystems	Ecosystems	Specimens	specimens list
	MS-LS2-5 MS-ETS1-3	Ecosystem Biodiversity	Ecosystems	Games	games/cards
G8	MS-LS4-3	Embryonic Similarities	Biology	Specimen	chick embryos
	MS-LS4-2	Evolutionary History and Relationships	Evolution	skulls	hominids, gorilla, chimps, human, etc
	MS-LS4-4 MS-LS4-6	Natural Selection	Evolution	Kit	jelly bean activity
	MS-LS3-1	Genes and Protein	Biology	Models	DNA model
	MS-LS3-1	Genes and Protein	Biology	Games	protein matching game