

PHYSICAL SCIENCES

GRADE	NGSS	STEMSCOPES LESSON	SUBJECT AREA	MATERIAL TYPE	PHYSICAL MATERIALS
G4	4-PS4-1	Motion of Waves	Waves	Equipment	slinkies
	4-PS3-4	Using Stored Energy	Electricity	Kits	circuits boards, doorbells, switches, generators, van der graaff generator, plasma globe, wires, battery holders
	4-PS3-2 4-PS3-3	Transfer of Energy in Collision	Forces	Equipment	toy cars, tracks, loop track w/marbles, slinkies, levers, blocks, pulleys, weights, bike wheel w/turn platform, magnet wands
	4-PS4-2	Light Reflection	Optics/Light	Equipment	prisms, colored glass, mirrors, spectrometers, colored light bulbs

EARTH & SPACE SCIENCES

GRADE	NGSS	STEMSCOPES LESSON	SUBJECT AREA	MATERIAL TYPE	EARTH & SPACE MATERIALS
G4	4-ESS1-1	Rock Patterns	Geology	Kits	rock kits (small & large), hardness kits, mineral kits (small & large)
	4-ESS1-1	Rock Patterns	Geology	Specimens	Industrial minerals, various rocks of all types
	4-ESS1-1	Rock Patterns	Geology	Equipment	geotechnical gauge
	4-PS4-1	Wavelength And Amplitude	Geology	Equipment	casts, spectroscope
	4-PS4-1	Wavelength And Amplitude	Geology	Equipment	shake table

LIFE SCIENCES

GRADE	NGSS	STEMSCOPES LESSON	SUBJECT AREA	MATERIAL TYPE	LIFE SCIENCE MATERIALS
G4	4-LS1-1	Plant & Animal Parts	Botany	Specimens	bamboo, see more plants in specimen list below
	4-LS1-1	Plant & Animal Parts	Botany	Specimen	tree rounds, cut wood, seeds, cones
	4-LS1-1	Plant & Animal Parts	Botany	Equipment	plant press, hand lenses
	4-LS1-1	Plant & Animal Parts	Botany	Models	flower, chloroplast, plant cells, vinyl stick on board
	4-LS1-1	Plant & Animal Parts	Biology	Specimen	horse skull, cow skulls horse mandible, pig skull, deer skull with antlers, whale vertebrate, cows hoove forelimb, see specimen list for more