



**Classroom<sup>3</sup>**™

# Simulation Index

SIMULATION	Grade Levels				DESCRIPTION
	Pri.	Int.	Jr.	Sr.	
<b>Math</b>					
Composite Solids - Volume		X	X		Develops volume strategies beyond $l \times w \times h$
Liquid Measurement	X	X			Compares cups, pints, quarts, and gallons
Making Cubes	X	X			Introduces spacial relationships on a basic polyhedron
Polyhedra	X	X	X	X	Develops spacial relationships by examining how polyhedrons are created from polygons
Simple Machines - Wedge	X	X	X		Introduces Inclined Plane Family
Simple Machines - Screw	X	X	X		Examines Screw as modified Inclined Plane
Simple Machines - Lever	X	X	X		Introduces Lever family, 1st, 2nd & 3rd Class Levers
Simple Machines - Wheel	X	X	X		Examines Wheel and Axle as modified Lever
Simple Machines - Pulley	X	X	X		Completes Lever family with Pulley system exploration
Spatial Orientation		X	X		Explores rotations in multiple directions
Symmetry	X	X			Explores line symmetry and turn symmetry
<b>Science</b>					
Cells		X	X	X	Examines animal cells and plant cells for common and specialized eukaryotic structures
Earthworm Anatomy		X	X	X	Examines exterior, muscles, and organs
Fall Leaves	X	X	X		Explores why only deciduous trees lose their leaves
Frog Anatomy		X	X	X	Examines exterior, muscles, skeleton and organs
Green Plant Lifecycle	X	X			Explores growth cycle from seed to plant to seed
Photosynthesis I		X	X		Introduces photosynthesizing organisms, process and components of photosynthesis, and energy storage
Photosynthesis II				X	Explores the photosynthesis process, Calvin Cycle and light-dependent reactions at an advanced level
Pollination	X	X	X		Examines attractors, pollinators and pollination of angiosperms and gymnosperms
Protozoa		X	X	X	Identifies important protozoan characteristics in three representative species: euglena, paramecium, amoeba
Solar System	X	X	X		Explores heliocentrically orbiting planets, dwarf planets, moons, asteroids, and comets
					Updated 9-6-2011