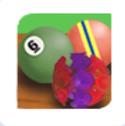
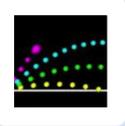


GENERAL INQUIRY			Available
LAB		<b>Flower in Water</b> Performance-based inquiry skills test in which students determine how additives (salt, sugar and red dye) impact petal redness and the flower's petal loss over time.	NOW
LAB		<b>Ramp</b> Performance-based inquiry skills test in which students determine how ramp height and roughness and sled size impact time and distance.	NOW

PHYSICAL SCIENCE			Available
LAB		<p><b>Phase Change</b> Determine how three factors: size of a container, amount of ice, and amount of heat affect melting and boiling properties of ice.</p>	NOW
LAB		<p><b>Free Fall: Energy</b> Understand the relationship between a ball's mass, initial and final kinetic and potential energy, when it is dropped from different heights.</p>	NOW
LAB		<p><b>Free Fall: Speed</b> Understand the relationship between a ball's mass, its final speed and its acceleration when it is dropped from different heights.</p>	NOW
LAB		<p><b>Liquid Density</b> Learn more about substance properties by seeing if the shape of the liquid's container, the amount of liquid, or the type of liquid (oil or water) impact density.</p>	NOW
LAB		<p><b>Introduction to Gravity &amp; Mass</b> Simulate what normally cannot be done. Learn how gravity and mass impact weight by weighing gold bars on different planetary bodies.</p>	NOW
LAB		<p><b>Orbit Distance &amp; Gravity</b> Simulate what normally cannot be done. Learn how distance from a planetary body impacts gravity, mass, and weight by weighing gold bars on different planetary bodies.</p>	NOW

LAB		<p><b>Introduction to Collisions</b> Explore collisions by changing the mass and velocity of two pool balls.</p>	NOW
LAB		<p><b>Advanced Collisions</b> Investigate how final velocity and momentum of two colliding balls are impacted by initial velocity and mass.</p>	NOW
LAB		<p><b>Inelastic Collisions - Trains</b> Using magnetic train cars, students will have the opportunity to inquiry into how inelastic collisions are impacted by changes in initial velocity and mass.</p>	COMING SOON
LAB		<p><b>Introduction to Forces &amp; Motion</b> Explore the interactions between size, height, and friction to impact the force, distance travelled, and time as a wooden sled is pushed down a ramp.</p>	NOW
LAB		<p><b>Forces &amp; Motion on Different Planetary Bodies</b> Explore the interactions between size, height, gravity, and friction to impact the force, distance travelled, and time as a wooden sled is pushed down a ramp.</p>	NOW
LAB		<p><b>Projectiles Parabolic Motion</b> Learn how horizontal and vertical motion can be separated by changing different factors that affect how a ball is launched.</p>	COMING SOON
LAB		<p><b>Waves</b> Investigate how changes to wavelength, amplitude, and frequency impact waves.</p>	COMING SOON

LIFE SCIENCE		Available
LAB		<p><b>Animal Cell Function</b> Examine an animal cell at the microscopic level. Experiment to learn how organelles work together to sustain the cell's functions.</p> <p>NOW</p>
LAB		<p><b>Animal Cell Energy &amp; Storage</b> Examine an animal cell at the microscopic level. Experiment to learn how organelles transfer energy and store nutrients.</p> <p>NOW</p>
LAB		<p><b>Plant Cell Function</b> Similar to the animal cell, learn how a plant cell's organelles support the cell's basic functions.</p> <p>NOW</p>
LAB		<p><b>Plant Cell Energy &amp; Storage</b> Similar to the animal cell, learn how a plant cell's organelles transfer energy and store nutrients.</p> <p>NOW</p>
LAB		<p><b>Natural Selection</b> Simulate how different species spread over a region and how their traits are inherited or may change over long periods of time. Survival of the fittest rules!</p> <p>NOW</p>

LAB



## Diversity of Traits

Simulate how mutations in one species impacts the diversity of traits seen in the population.

NOW

LAB



## Genetics

Investigate how the mother's alleles affect the chance that the offspring will produce various traits including horns, fur length and color.

NOW

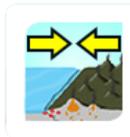
LAB

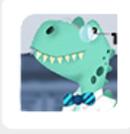


## Predation

Practice working predator and prey relationships by inquiring about the effects of birth rate and initial population size resulting in changes in the ecosystem involving seals and sharks.

NOW

EARTH SCIENCE		Available
LAB	 <p><b>Lunar Phases</b> Explore how the lunar phases are tied to the orbit of the moon, as well as how lunar rotation leads to tidal lock.</p>	NOW
LAB	 <p><b>Eclipses</b> Examine how lunar and solar eclipses happen, and how scientists predict where and when eclipses can be observed.</p>	NOW
LAB	 <p><b>Plate Tectonics: Convergent Plates</b> Explore how different types of formations are created at converging plate boundaries.</p>	NOW
LAB	 <p><b>Plate Tectonics: Divergent Plates</b> Change different geological factors at divergent plates to see how these affect observable phenomenon such as sea floor spreading.</p>	NOW
LAB	 <p><b>Introduction to Seasons</b> Learn how seasons differ across the equator, and how the earth's tilt and the day of the year impact seasons.</p>	NOW
LAB	 <p><b>Seasons – Earth has NO Tilt!</b> Learn how seasons differ across the equator, and how the earth's days and seasons are impacted when Earth has no tilt.</p>	NOW
LAB	 <p><b>Human Activity</b> Inquire as to how changes in human population and consumption of natural resources impacts the rise in global temperatures</p>	COMING SOON

FEATURE LIST		Available
	<p><b>Mobile Alerts – All Virtual Labs</b> Alerts on portable devices about who is struggling and on which specific skills help teachers focus their efforts as students work in class.</p>	<p>PILOTING NOW</p>
	<p><b>Automatic Scaffolding – All Virtual Labs</b> Students receive one-on-one, personalized help as they make hypotheses, collect data, and analyze their data automatically if the system detects they are off track.</p>	<p>PILOTING NOW</p>
	<p><b>Real Time Assessment Data – Class Level</b> Teachers can compare and contrast progress and achievement of subskills among class sections in a quick synthesis.</p>	<p>PILOTING NOW</p>
	<p><b>Real Time Assessment Data – Student Overview</b> Teachers are able to view an individual student's results for specific labs. Teachers can also see progress and achievement on each subskill.</p>	<p>PILOTING NOW</p>
	<p><b>Real Time Assessment Data – Detailed Student Report</b> Teachers can see the student's scores on each of the science practice subskills, and written explanations. Coming soon teachers will be able to view a Student Performance Summary.</p>	<p>COMING SOON</p>