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# Science Gizmo Status

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## Listing of Life, Earth, and Physical Science Gizmos for Fall 2004.

Abstract: The following document lists the modern Science Gizmos that EL Plans to have online before the start of the 2004-2005 school year. Last updated on June 30, 2004.



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The following Gizmos are in various stages of development. The plan is that they should all be available for use on ExploreLearning by the start of the 2004-2005 school year (starting in late August). Gizmos will be deployed to the live site as they are developed (including the curriculum material and assessment questions associated with the Gizmo).

This document will be updated weekly to reflect any overall changes in plans. All the titles shown below are tentative, and the final title may change. An asterisk indicates that the Gizmo is currently in the early design phase, and is subject to change. No asterisk indicates that the Gizmo has (at a minimum) entered the development phase.

## 1.0 Physical/Chemical Science

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The following Gizmos are applicable for the physical sciences (chemistry often included here).

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**TABLE 1.** Physical Science Gizmos

Additive Color	Subtractive Color
Slice and Dice Density Lab	Balancing Chemical Equations
Fan Cart Physics	Circuit Lab
Roller Coaster Physics	Density via Comparison
Density via Water Displacement	Element Builder
Energy Conversion	Energy of Mass on a Spring
Energy of a Pendulum	Freefall Laboratory
Heat Transfer by Conduction	Herschel Experiment
Ideal Gas Law	Reflection of a Laser Beam
Period of Mass on a Spring	Period of a Pendulum
Potential Energy and Work	Solubility versus Temperature
Triple Beam Balance	Uniform Circular Motion
Vector Addition, Subtraction, and Dot Products	

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**2.0 Earth Science**

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The following Gizmos are applicable for the earth sciences.

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**TABLE 2.** Earth Science Gizmos

Analysis of Unknown Powder	Earthquake - S & P Waves
Earthquake - Determination of Epicenter	Freezing Point of Salt/Water Mixture
Gravitational Force	Greenhouse Effect
Half Life Laboratory	Human Power Consumption
Phases of the Moon	Ocean Mapping (Topographical)
Relative Humidity	Rotation and Revolution of Planets
Seasons - Why do we have them?	Tides on Earth
Weather Map Symbols	H-R Diagrams
Coastal Wind and Clouds	Rock Classification
Water Pollution	Hurricane Prediction
Rock Cycle	Solar System Exploration
Permeability/Porosity Lab	Water Cycle
Plate Tectonics	

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**3.0 Life Science**

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The following Gizmos are applicable for the life sciences.

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**TABLE 3.** Life Science Gizmos

Alien Life Forms and Environmental Conditions	Bird Beak Thickness: Real Word Studies
Diffusion	Spread of Disease
DNA Fingerprint Analysis	Food Chains
Gecko Gender	Mouse Genetics
Osmosis	Photosynthesis
Rabbit Population by Season	Seed Germination
C, H <sub>2</sub> O, N Cycles*	Respiration/Photosynthesis Cycle*
Cell Life Cycle*	Virus Life Cycle
pH Analysis	Cell Model
Human Systems (Digestion, Respiration, etc.)*	Classification via Schema*
Understanding DNA	RNA and Protein Synthesis
Estimating Population Size	TBD
TBD	

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