

MODULAR



Key Features:

- Digital curriculum for online or blended classroom use.
- Built using native LMS tools (not SCORM) making it fully customizable.
- Modular units that can be used in any combination or order.
- Every unit integrates science, technology, engineering, and math.

Biology

Physical Science

Earth Science

Software Tools

Space Science

Mathematics

The Game
of Life

CSI:
Cold Case

And Now for
the Weather

Riddle
Me Mars

The Dark
Universe

Sex Cell
and the City

Zen and the
Art of Ecology

Map Attack

The Green
House

R U Out
There?

All In
Your Head

DIY
Spectroscopy

Designer
Trash

Color the
Universe

Orbit
Architect

Bump,
Bump, Break

Racers, Heat
Your Engines

App
Inventor

Skyscrapers
with Sketchup

Games
of Chance

Making
Music

From Noob
to Rube

Get with the
Program

The Web
We Weave

The World
is a Stage

The Unit Projects

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- All in Your Head:** Design and carry out a psychological study on a group of willing participants.
- And Now for the Weather:** Record and share a 2-minute national weather forecast.
- App Inventor:** Create an original mobile app for the Android platform.
- Bump, Bump, Break:** Design a packaging solution to protect an egg during transportation.
- Color the Universe:** Create your own color picture using Hubble Space Telescope data.
- CSI: Cold Case:** Analyze evidence and prepare testimony on an unsolved murder case.
- The Dark Universe:** Write a science fiction story about travels through hidden dimensions and deep space.
- Designer Trash:** Redesign a product that usually ends up in a landfill, making it sustainable.
- DIY Spectroscopy:** Create a kit that anyone could use to build their own simple spectrometer.
- From Noob to Rube:** Construct a Rube Goldberg Machine with at least five energy transfers.
- The Game of Life:** Design a board game based on the principles of evolution.
- Games of Chance:** Create an original game of chance based on a randomly occurring event.
- Get With the Program:** Write an original web-based program using JavaScript.
- The Green House:** Create a prototype of a household appliance powered by alternative energy.
- Making Music:** Build an instrument capable of playing several distinct chords.
- Map Attack:** Create a GIS presentation for a proposed sports park in your local community.
- Orbit Architect:** Determine an appropriate orbit for a earth-observing satellite.
- R U Out There?:** Design a message to be sent as a beacon to distant civilizations.
- Racers, Heat Your Engines!:** Design and build a heat engine powered racer.
- Riddle Me Mars:** Create a quiz game on earth science topics using NASA imagery data from Mars.
- Sex Cell and the City:** Design a city plan modeled after the parts and processes of a sex cell.
- Skyscrapers with Sketchup:** Build a model of a tall building using Google Sketchup.
- The Web We Weave:** Create a multi-page website using HTML5 and CSS.
- The World is a Stage:** Create your own three-act math task and share it via blog post.
- Zen and the Art of Ecology:** Create a multi-media art project based on an ecosit experience.

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