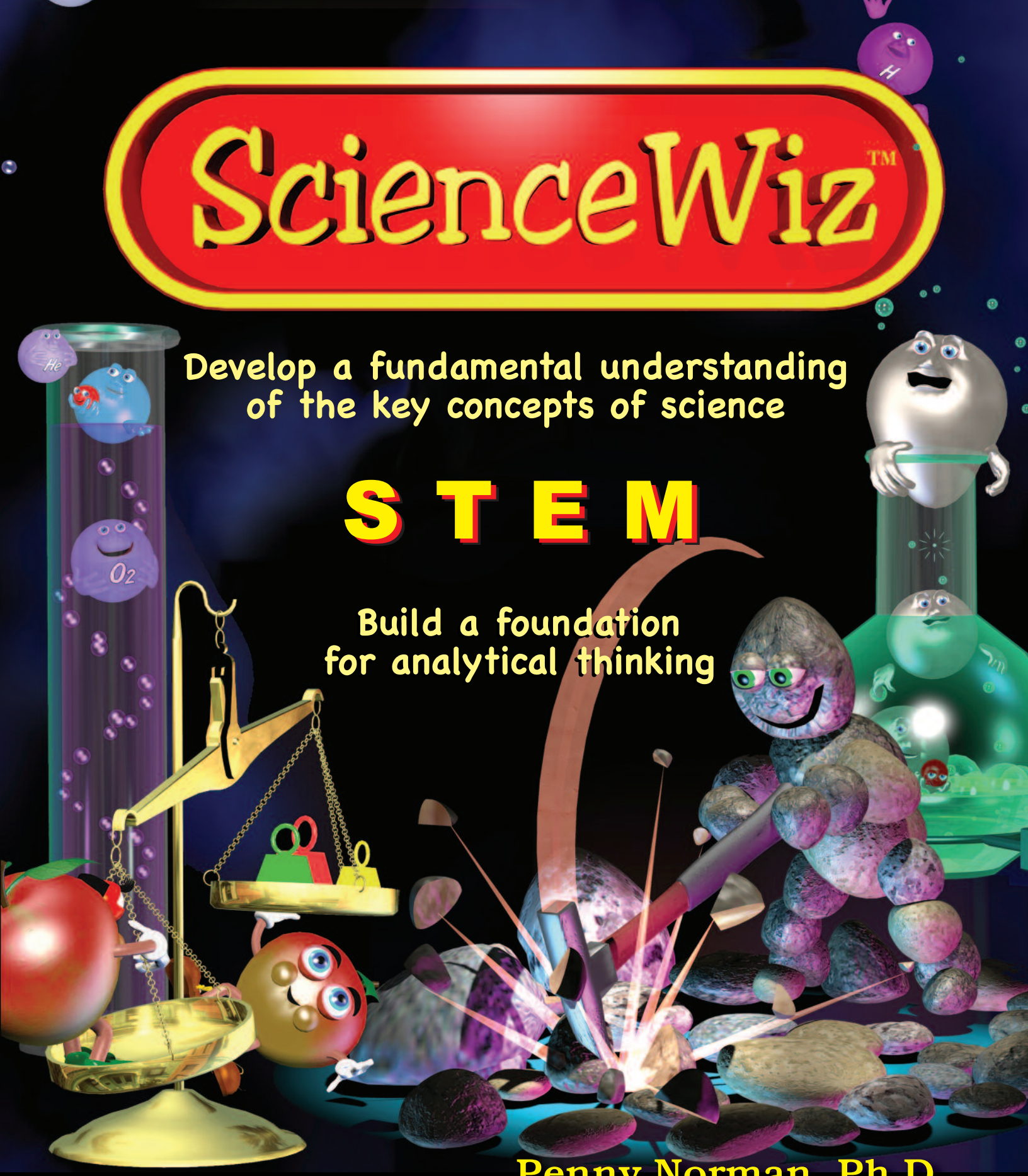
ScienceWiz™

Develop a fundamental understanding of the key concepts of science

S T E M

Build a foundation for analytical thinking



Penny Norman, Ph.D.

Teacher's Science Packs
Thinking Games

Electricity | 40 Page Books & Materials

Teacher's Pack

in multiples of
6, 12 or 24 sets per box

Student Experiments

- Build circuit loops
- Light lights
- Connect one-way parts: buzzers and LEDs
- Spin pinwheels and whiz bangs and connect electric motors
- Test what conducts electricity
- Learn about insulators
- Learn about open and closed circuits, shunts and shorts
- Make a simple switch to open and close a circuit loop and to send coded messages
- Connect together one and two loop circuits to explore series and parallel circuits

Includes FREE ScienceWiz.com Portal Access

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Item # **9900**

AWARDS

SCIENTIFIC AMERICAN Young Reader's Book Award

Good Morning America's TOP TEN CHILDREN'S TOYS

NAPPA GOLD

RECOMMENDED

2007 TOP CHOICE award

Design funded by the National Science Foundation

A 6 Pack Includes

6 full color readers
6 motors
6 bulbs and holders
6 buzzers
6 LEDs
6 spinners
6 sets of 4 alligator leads
(red, green, yellow and white)
12 battery bands
6 switch card assemblies
6 grab bags of parts

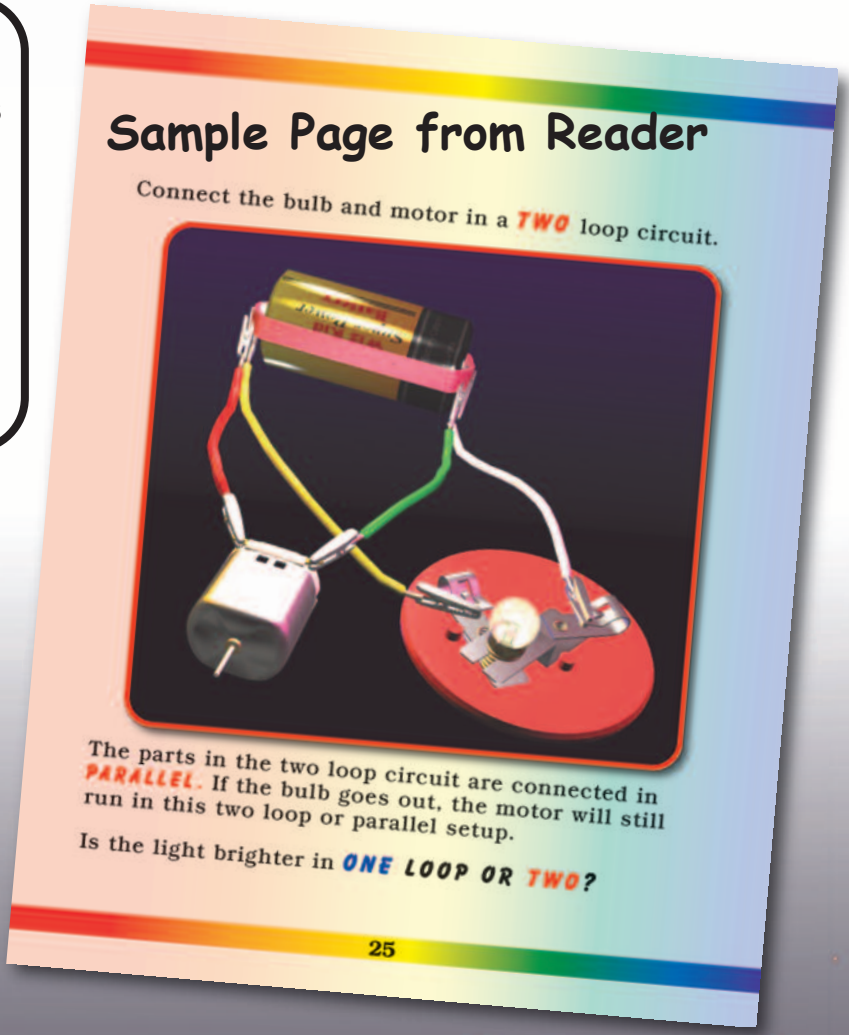
A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

ternet animations, interactives, word play and deos complement the classroom experiments. omputer based materials work on most tablets mart phones, portable and desktop computers.

upplemental internet materials allow udents to progress at their own pace nd to their own level of interest and detail.

ontents periodically updated by scientists nd educators.



- These Teacher's Packs are designed so that students have their own reader and materials.
- This Pack consists of largely non-consumables and uses robust components designed for years of classroom use.
- Extensions to the primary projects are feasible as there are sufficient supplies for all.

Magnetism | 40 Page Books & Materials

Teacher's Pack

in multiples of
6, 12 or 24 sets per box

Includes FREE ScienceWiz.com Portal Access

Student Experiments

- Use magnets to detect iron and to determine which metals stick to magnets
- Explore magnetic attraction and repulsion including the levitation of color coded ceramic ring magnets
- Use strong bar magnets to learn about action at a distance
- Visualize poles and lines of force with iron filings
- Explore how a compass reacts to magnets
- Craft a compass
- Detect the Earth's magnetic poles
- Make a temporary magnet and test it's strength
- Build and manipulate electromagnets
- Determine what can make magnets bigger and stronger
- Discover how an electric motor works

Item # **9901**

AWARDS

NATIONAL PARENTING PUBLICATIONS AWARDS NAPPA GOLD

Creative Child Magazine Award

A 6 Pack Includes

6 full color readers
18 color coded ceramic ring magnets
6 plain ceramic ring magnets
6 ceramic big bar magnets
6 N/S red ceramic bar magnets
6 pouches of iron filings
6 compasses (lead free inside and out)
6 assemblies to make electro magnets (includes large nails, magnet wire, battery bands and sand paper)
6 bags of materials to test magnets
6 ducks

A 12 pack includes 2 times the quantities listed above

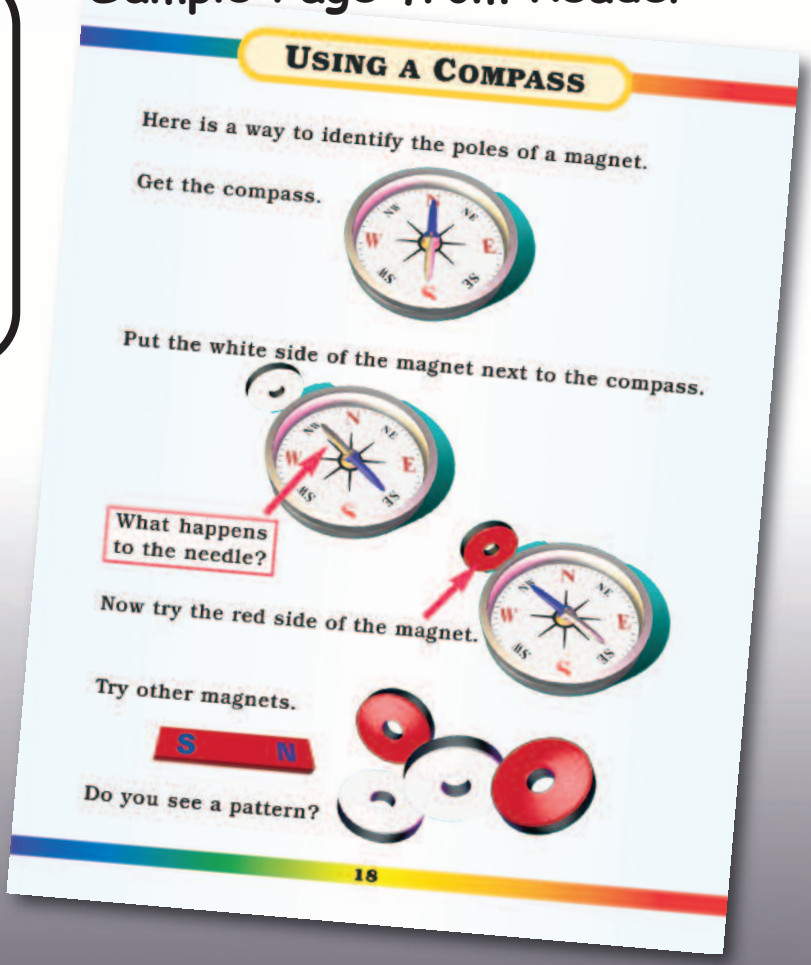
A 24 pack includes 4 times the quantities listed above

Internet animations and videos complement the classroom experiments.

Supplemental internet materials allow students to progress at their own pace and to their own level of interest and detail.

Contents periodically updated by scientists and educators.

Sample Page from Reader



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Chemistry | 40 Page Book & Materials

Solids, Liquids & Gases

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Student Experiments

- Explores how the same matter can be in one of three states: a solid, a liquid or a gas and change state by heating, freezing, condensation and evaporation
- Explore the properties of solids, liquids and gases
- Measure, pour and shape liquids
- Predict and experiment with what pressure can do
- Discover that not all liquids mix together and that when they don't, they sort by density
- Overfill, float and pipette water onto a penny to explore surface tension
- Sink and float an egg to explore density
- Dye a fan from the inside out and separate colors with capillary action
- Prove that the gases in air do exist
- React a solid with a liquid and produce and capture CO_2 gas
- Discover that gases can be heavier and lighter than air
- Explore air pressure by squeezing an egg into a bottle and by holding water upside down
- Burn oxygen inside a jar and watch the displacement of its volume
- Measure the volume of a solid and manipulate the shape and density
- Explore mixing, solubility, filtering and crystalization

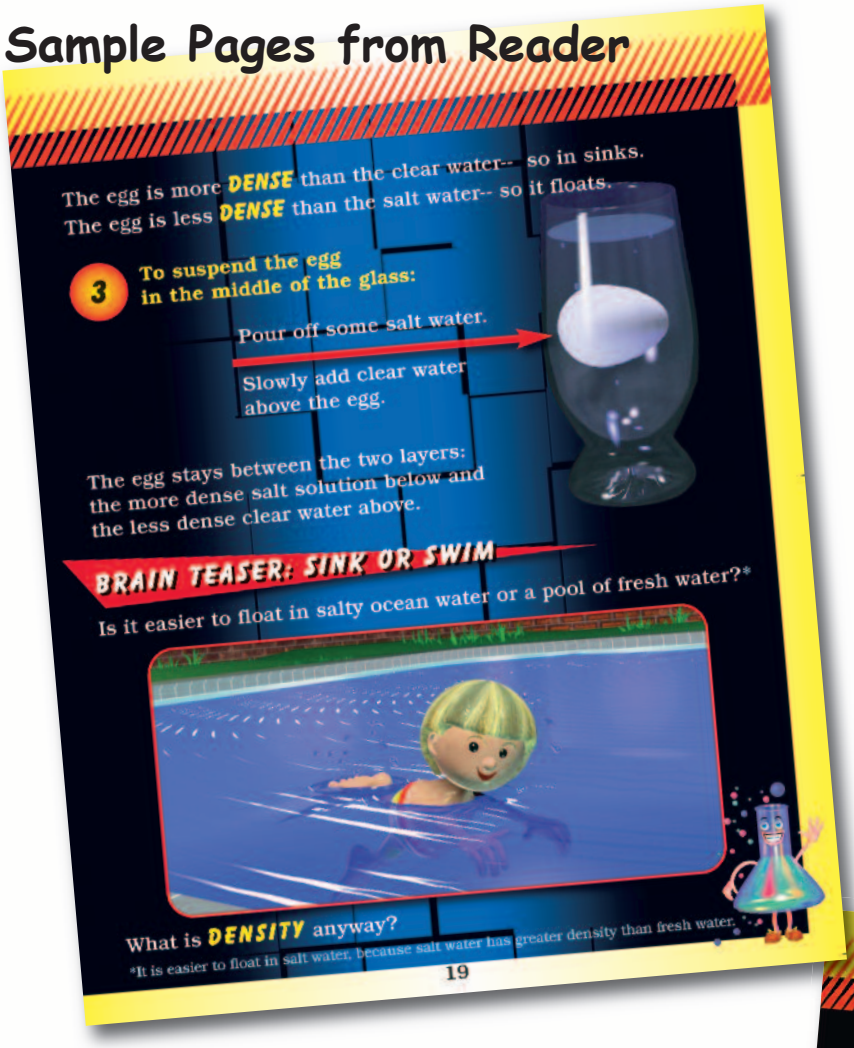
Includes FREE ScienceWiz.com Portal Access

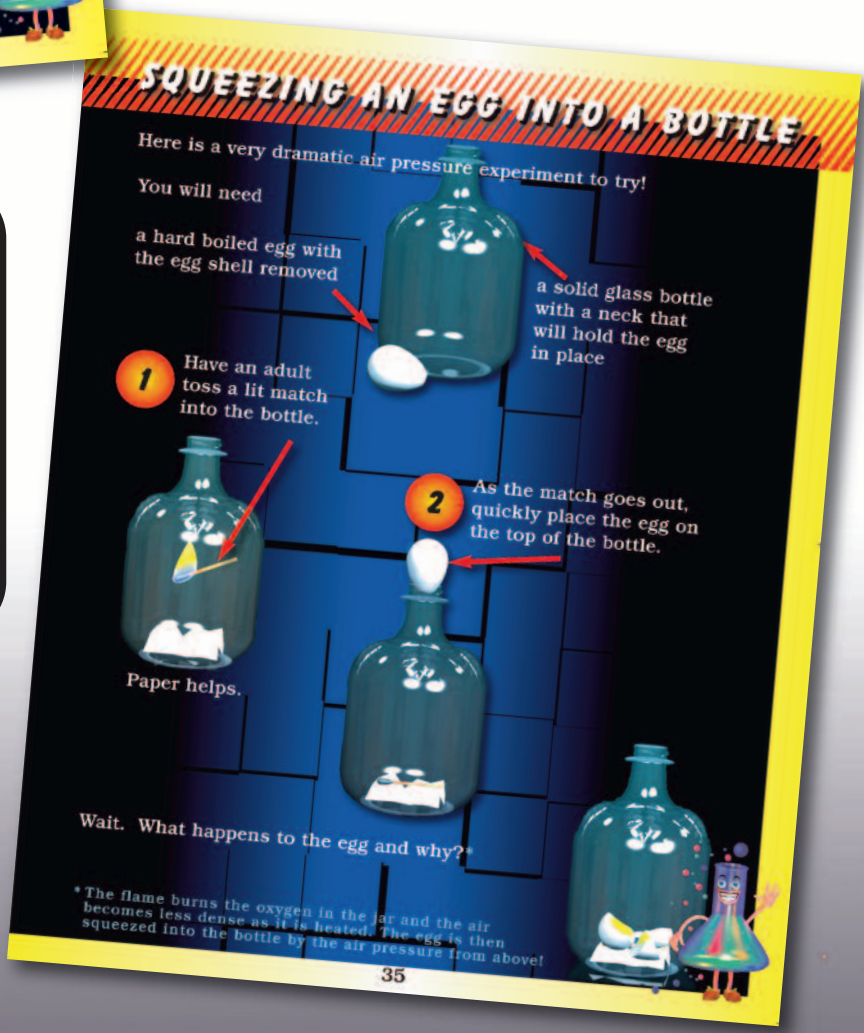
Creative Child Magazine Award

This kit deliberately relates and explains favorite childhood activities to chemistry. The importance of this to later interest and accessibility should not be ignored. That is why candle making, juice freezing, baking soda and balloon activities are included.

Item # **9904**

Sample Pages from Reader





A 6 Pack Includes

6 full color readers
12 pipettes
12 graduated cylinders
6 graduated measuring cups
6 balance scales to measure mass and for estimation experiments
18 balloons -- 11 inch helium grade
12 shape balloons and 1 air pump
12 dart balloons
12 loom loopers
2 pounds of wax
12 sets of string
12 filters
clay, baking soda, salt and sand
1 laminated teacher's guide

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

ternet animations, interactives, word play and deos complement the classroom experiments. omputer based materials work on most tablets hart phones, portable and desktop computers.

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Light | 40 Page Books & Materials

Teacher's Pack

in multiples of
6, 12 or 24 sets per box

AWARDS

NATIONAL PARENTING PUBLICATIONS AWARDS
NAPPA GOLD
Creative Child Magazine Award

Student Experiments

- Explore light sources
- Use diffraction glasses and prisms to split white light into a rainbow and discover the order of the colors
- Learn that the primary colors of light are different from that of pigments
- Explore how the primary colors of light combine using both light wands and spinning disks
- Show that light travels in a straight line with flashlights
- Bounce light and discover that the angle-in equals the angle-out
- Manipulate reflected images with multiple mirrors and with kaleidoscopes
- Absorb or subtract colors from light and mix the primary colors of pigments
- Bend or refract light with water and with lenses
- Make water or gelatin lenses and learn about concave and convex surfaces
- Find and measure the focal point of a magnifying lens
- Combine magnifiers to make a very basic microscope and telescope
- Determine which items are transparent, opaque or translucent
- Capture a shadow
- Make a camera obscura to understand how cameras work
- Discover how diffraction lines work with feathers, diffraction glasses and CDs
- Learn about invisible electromagnetic waves and the speed of light

Includes FREE ScienceWiz.com Portal Access

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Item # **9902**

Sample Pages from Reader

A 6 Pack Includes

- 6 full color readers
- 6 motors
- 6 sets of alligator leads (red and black)
- 12 concave and convex lens forms
- 12 magnifiers
- 6 light wands to combine the primary colors of light (red, green, blue) into the secondary colors of cyan, magenta, yellow and white
- 6 prisms
- 6 rainbow diffraction glasses
- 12 battery bands
- 6 camera obscura sets of materials
- 6 sets of light sensitive paper
- 6 mylar mirrors
- 6 kaleidoscope sets of materials
- 6 spinner cards for combining colors

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

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- This Pack consists of largely non-consumables and uses robust components designed for years of classroom use.
- Extensions to the primary projects are feasible as there are sufficient supplies for all.

Physics | 48 Page Books & Materials

Explore Newton's Laws of Motion

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Student Experiments

Develop a fundamental understanding of inertia, the laws of motion, and the fundamental parameters of physics: mass, force and weight, velocity and acceleration, circular motion and centripetal force.

Concepts are explored with time tested experiments and highly visual illustrations.

Includes FREE ScienceWiz.com Portal Access

- Perform tricks with inertia and solve inertia puzzles conceptually
- Stay in motion with a low friction air puck
- Build spring meters and measure the forces of a push and a pull
- Munch an apple or shrink a piece of clay down to one Newton
- Learn about gravity, center gravity and falling objects
- Use a balance scale to measure and estimate the mass of objects
- Clock each student's speed
- Puzzle out the difference between speed and velocity
- Explore the concept of acceleration
- Measure the acceleration of a car down a ramp
- Experiment with Newton's Second Law of Motion
- Launch bottle rockets, jet cars and balloons for Newton's Third Law of Motion
- Investigate circular motion and centripetal force

AWARDS

Dr. Toy 100 BEST Children's Products
Dr. Toy BEST VACATION Children's Products 2004
Creative Child Magazine Award

Item # **9912**

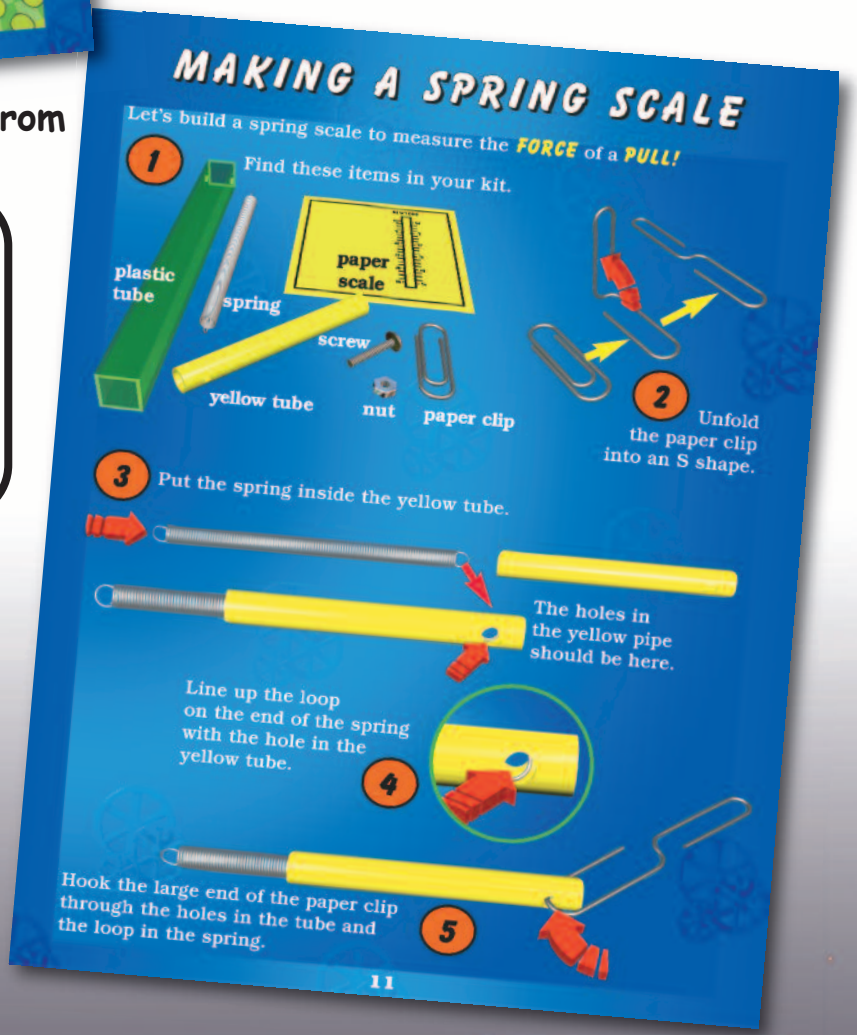
A 6 Pack Includes

- 6 full color, step-by-step instruction books
- 6 hover pucks
- 6 balance scales
- 6 spring meter assembly kits
- 2 water rocket stoppers with inflation needles
- 6 rocket tubes and stoppers for baking soda and vinegar rockets
- 6 cars for ramp experiments and jet car experiment
- 18 balloons for motion projects
- 6 sets of paper items (clowns, trucks)
- 6 ducks

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

Sample Pages from Reader



Internet animations and videos complement the classroom experiments.

Supplemental internet materials allow students to progress at their own pace and to their own level of interest and detail.

Contents periodically updated by scientists and educators.

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Inventions | 48 Page Book & Materials

Inventions with Coils

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Build, Build, Build!

These are all inventions made with coils from the 19th and early 20th century which launched mankind into a new era. These projects introduce the phenomenology behind Maxwell's equations and introduce analog components. Step-by-step 3D directions and the use of everyday materials brings clarity to how-things-work.

- a spinning motor
- a light flashing generator -- a motor in reverse
- a clicking telegraph
- a real radio

Instructions for making a galvanometer and a relay are also included.

Lays the foundation for understanding electronic components and the fundamentals of electromagnetism.

Includes FREE ScienceWiz.com Portal Access

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Item **# 9903**

AWARDS

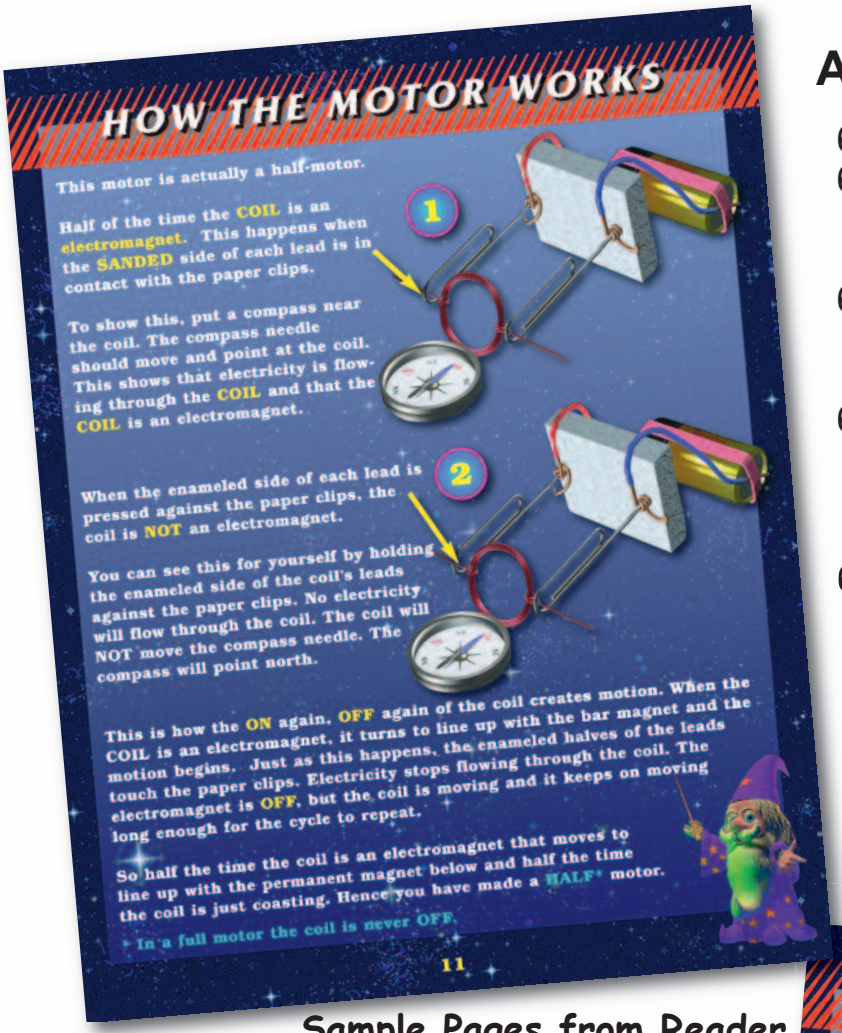
SCIENTIFIC AMERICAN Young Reader's Book Award

AMERICAN SPECIALTY Toy Association Award - Top Picks

NATIONAL PARENTING PUBLICATIONS AWARDS NAPPA GOLD

Creative Child Magazine 2007 TOP CHOICE award

Funded by the **National Science Foundation** and the **Franklin Foundation**



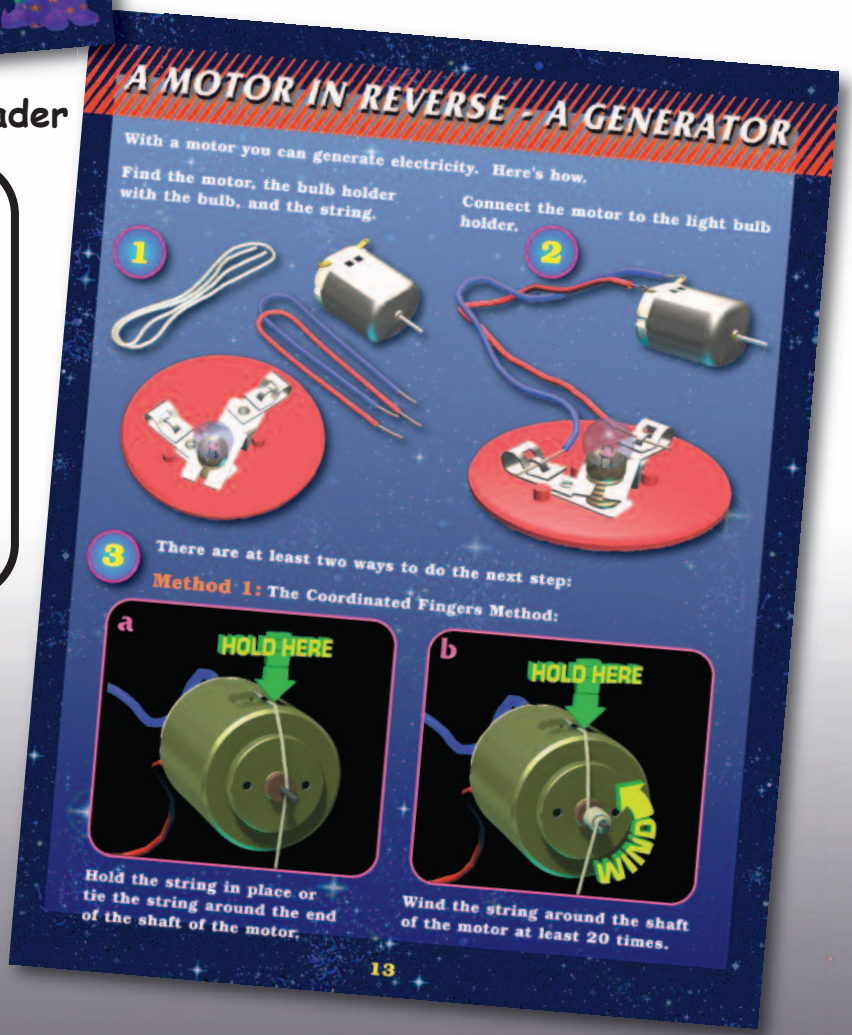
Sample Pages from Reader

A 6 Pack Includes

- 6 full color reader
- 6 motor assemblies
  (bar magnet, foam base, magnet wire, connecting wire, battery band)
- 6 generator assemblies
  (bulb and holder, motor, connecting wire and string)
- 6 telegraph assemblies
  (magnet wire, iron nail, battery band, connecting wire, switch card, paper fasteners, paperclips)
- 6 radio assemblies (50 feet of magnet wire, diode, earphone, paper fasteners, color coded connecting wire)

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above



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Energy | 48 Page Books & Materials

Join the Race to Save the Planet!

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Student Experiments

Discover what energy is, how we make it now and the choices await us in the future. Learn about carbon emissions and climate change.

Includes FREE ScienceWiz.com Portal Access

- Categorize the types of energy and define what energy is
- Experiment with kinetic and potential energy and construct a energy chain reaction
- Convert energy from one form to another and determine which materials can be used to make specific energy transfers
- Learn the Laws of Conservation of Mass and Energy
- Explore how energy is used in modern society
- Make a flywheel generator and take apart a motor and spin a turbine to understand how electrical power is currently generated
- Compare wind, water, coal, natural gas and nuclear power sources
- Investigate energy choices for heating and transportation
- Quantify and explore fossil fuel emissions and its impact on the climate
- Spin a propeller with a solar cell, build a solar car and learn how they work
- Discuss solar energy, its peaks and valleys
- Launch a super capacitor car and an electric car
- Build a battery with multiple cells to light an LED
- Discover how solar cells work

Dr. Toy 10 BEST Educational Products WINNER — Creative Child Magazine Award

Item # **9905**

A 6 Pack Includes

- 6 full color readers
- 6 solar cells
- 6 car assemblies (4 wheels, 2 axels, frame, 2 gears and 3 washers)
- 6 ultra capacitors
- 12 battery bands
- 12 motors
- 6 buzzers
- 6 LEDs
- 6 magnifiers
- 6 stoppers for flywheel generator
- 6 pinwheels to model turbines
- 6 propellers
- 6 mylar reflectors
- 6 battery assemblies (wires, 3 cups, battery cards)
- 6 6 feathers, large lump of coal

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

Sample Pages from Reader

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Rocks | 56 Page Books & Materials

and Geology

NEW!

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

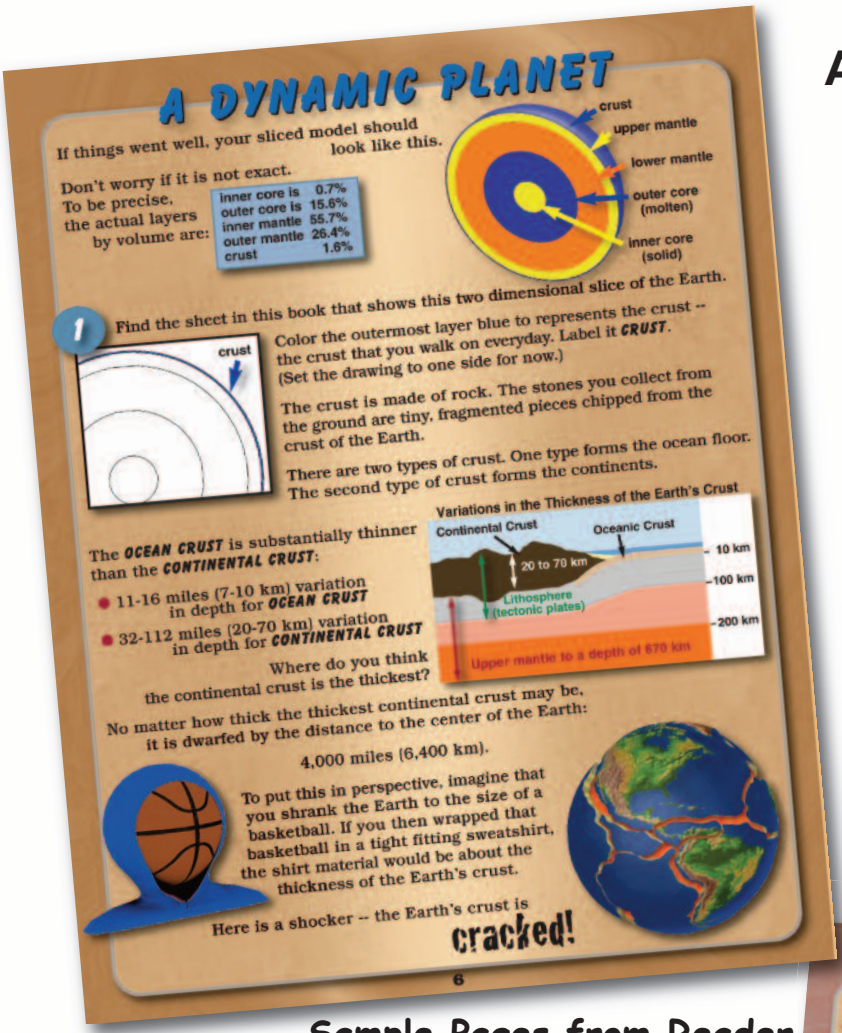
Student Experiments

Manipulate the oldest objects on the planet — rocks.

- Model the layers of the earth from core to mantle to crust
- Distinguish between thin but dense oceanic crust and thicker but lighter continental crust
- Learn how the crust of the earth is fractured into moving tectonic plates that separate and collide over the eons and pull apart Pangaea
- Explore density with a convecting lava fountain
- Discover how differences in density not only created the Earth's layers but also provide the driving force for tectonic plate movement
- Categorize rocks by how they are formed: igneous, sedimentary or metamorphic and investigate the igneous rocks: pumice, obsidian, cinder, basalt and granite and which are intrusive and which extrusive
- Learn how most of the thin ocean crust is made of the igneous rock basalt while the continental crust is more granitic.
- Model both lava flows and pyroclastic eruptions and discover which types of volcanoes tend to be pyroclastic and which are not.
- Learn about cratons, the ancient stable cores of the continents
- Explore why basaltic oceanic crust is so much younger and thinner than continental crust.
- Learn how clastic sedimentary rocks are formed and identify them by particle size
- Do settling and deposition experiments, make a conglomerate, layer and cement together a sandstone and compare these "rocks" with actual sedimentary rocks
- Burn biological rocks and learn how coal is formed
- Make fossils and investigate where certain types of fossils are likely to be found
- Identify which metamorphic rocks are transformed through heat, pressure, friction or chemical fluids from particular igneous and sedimentary rocks and diagram the rock cycle
- Learn which two common elements make up most rocks, what are the 11 common rock forming minerals and why basalt and granite have such distinct mineral composition.

Includes FREE ScienceWiz.com Portal Access

Item # **9909**



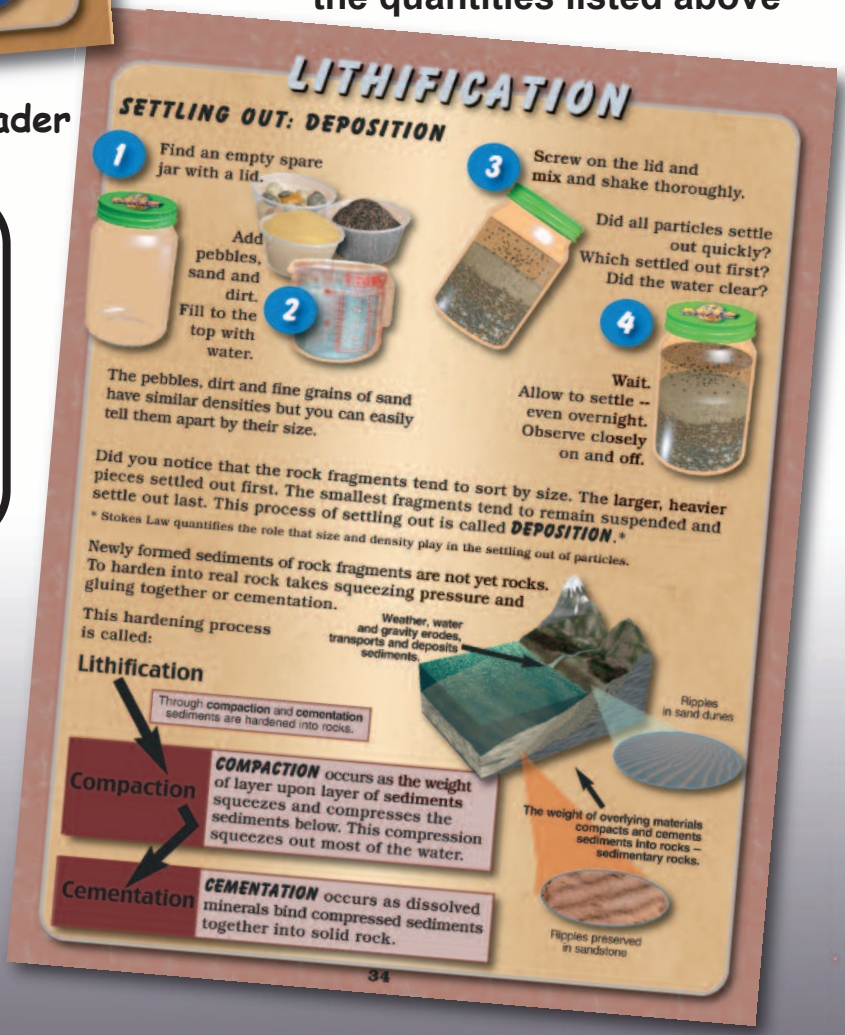
Sample Pages from Reader

A 6 Pack Includes

- 6 full color readers
- 6 sets of modeling material for modeling the layers of the earth
- 6 sets of pangea stickers, 6 rock trays
- 6 sets of igneous rocks (includes pumice, obsidian, cinder, basalt and granite)
- 6 magnifiers, 6 magnets, 6 loadstones
- 6 sets of materials to make sedimentary clastic rocks and conglomerates)
- 6 sets of sedimentary rock samples (sandstone, conglomerate, shale halite, gypsum, and travertine)
- 6 sets of sedimentary biological rocks (limestone, bituminous coal, anthracite)
- 6 sets of metamorphic rocks (gneiss, quartzite, slate, marble, schist)

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above



Internet animations and videos complement the classroom experiments.

Supplemental internet materials allow students to progress at their own pace and to their own level of interest and detail.

Contents periodically updated by scientists and educators.

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- This Pack has a number of consumables. Replacement consumables can be purchased through ScienceWiz™.
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Chemistry+ | 48 Page Book & Materials

The Alphabet of the Universe

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Includes FREE ScienceWiz.com Portal Access

Student Experiments

These readers and materials explore The Periodic Table of Elements.

- Split water into rocket fuel with a battery and pencil graphite, pop the captured hydrogen to explore the properties of the first element
- Act out the roles of electrons and protons in hydrogen and helium
- Use pH sticks to measure acids and bases and relate pH to dissociated hydrogen
- Discover how many of the elements are familiar metals
- Hi-light the very few elements that are actually non-metals
- Investigate the properties of noble gases starting with the most familiar -- helium
- Explore the properties of alkali metals by flame testing the common salts, watching videos of their extraordinary reactivity with water and forming crystals
- Relate salts to crystal formation, ionic bonds and their pairing with halogens
- Investigate calcium, an alkaline earth that is found in chalk, your bones and egg shells and make a calcium sulfate caste to explore exothermal reactions
- Use an acid test to distinguish calcium sulfate from calcium carbonate
- Understand crystal making in terms of the periodic table
- Discover the “personality traits” of the elements in The Periodic Table

Item # **9910**

Sample Pages from Reader

A 6 Pack Includes

6 full color readers
12 test tubes with graphite tubes
6 sets of red and black alligator lead pairs
60 pH sticks (0-14 pH range)
6 color coded pH charts
6 sets of alkali metals for flame testing
6 sets of electrons, protons and neutrons for modeling periodic table of elements
12 periodic table of elements for hi-lighting metals, non-metals and semimetals
6 magnifiers
6 tea candles
60 experiment cups
32 oz. of plaster of Paris, gauze, chalk

A 12 pack includes 2 times the quantities listed above
A 24 pack includes 4 times the quantities listed above

Internet animations and videos complement the classroom experiments.

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- Extensions to the primary projects are feasible as there are sufficient supplies for all.

DNA | 40 Page Book & Materials

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

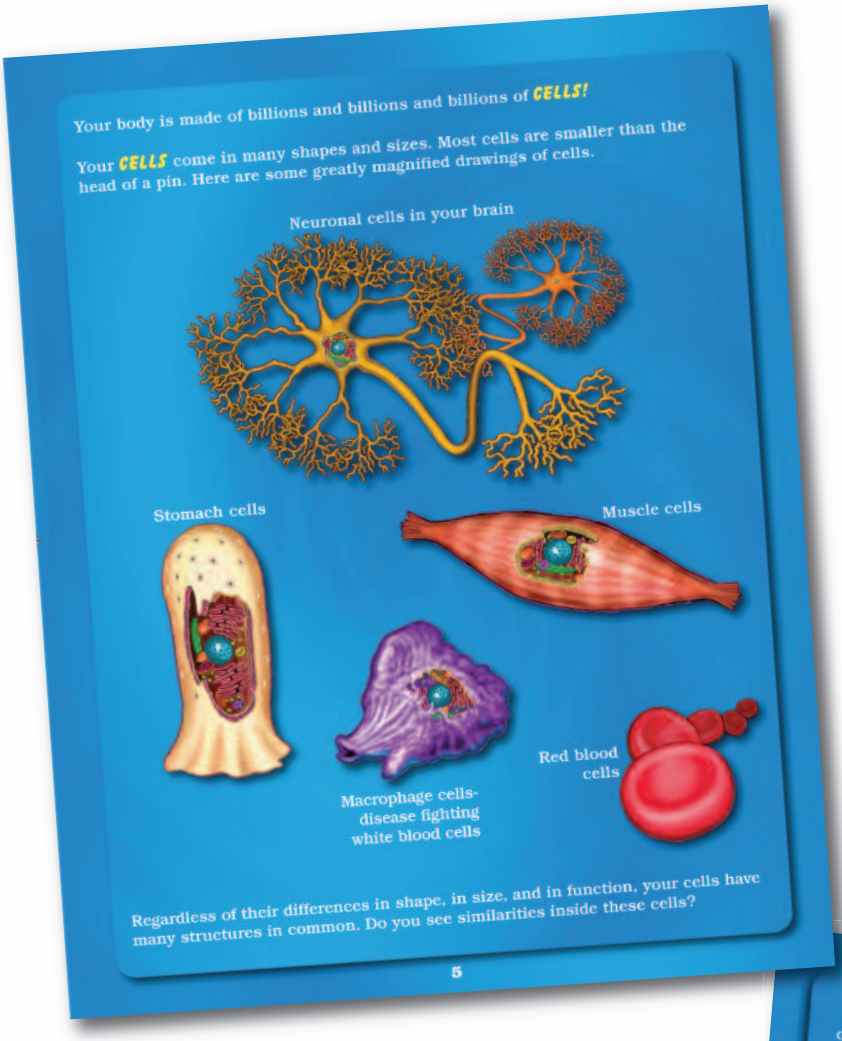
Student Experiments

The central concepts of molecular biology are made accessible.

- Learn about the composition of cells in all living organism and where DNA, the information molecule of life, is located
- Extract DNA from the nuclei of a fruit and know why it works
- Probe and spool real DNA with pipettes
- Learn about the four molecules that code for all of life
- Build a DNA ladder and twist into a double helix
- Unzip and pair up to understand how DNA replicates itself
- Think about how the extraordinarily long DNA molecules are packaged into minute nuclei inside each cell
- Solve puzzle by sorting chromosomes by size, staining pattern and by centromere position
- Determine if it is a boy or a girl
- Learn about genes and find out what determines eye color
- Extract your own DNA and make forgery proof DNA Ink
- Learn how DNA sends its messages within the cell to determine how each cell in the body functions

Includes FREE ScienceWiz.com Portal Access

Item # **9911**



A 6 Pack Includes

12 sets of DNA double helix pieces
6 full color readers
6 graduated cylinders
18 graduated pipettes
12 cytology brushes
6 thermometers
6 chromosome puzzles
6 chromosome sorting tray
6 sets of DNA extraction buffers
6 ink bases in eppendorf tubes
6 ink wells and quills
6 tube holder
12 filter papers

A 12 pack includes 2 times the quantities listed above

A 24 pack includes 4 times the quantities listed above

Internet animations and videos complement the classroom experiments.

Supplemental internet materials allow students to progress at their own pace and to their own level of interest and detail.

Contents periodically updated by scientists and educators.

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- This Pack has two projects that use consumables. Replacement consumables can be purchased through ScienceWiz™.
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Sample Pages from Reader

Charge!

40 Page Book & Materials

Real Engineering Projects

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Includes FREE ScienceWiz.com Portal Access

Build a real Van de Graaff Generator!

NEW PRODUCT

Build 6 devices to explore CHARGE!

Build, Charge, Spark, Spin and Spew -- 6 devices and 15 activities

- Generate sparks with a Van de Graaff generator
- Make your hair **STAND ON END!**
- Spew an electrostatic fountain
- Spin an electrostatic motor
- Propel objects with electrostatics
- Charge and shock with a Leyden jar capacitor
- Repel charges with an electroscope
- Make an electrophorus with a pie tin
- Ring a Franklin Bell
- Discover which charges attract and which repel
- Explore static electricity

Item # **9914**

NEW PRODUCT

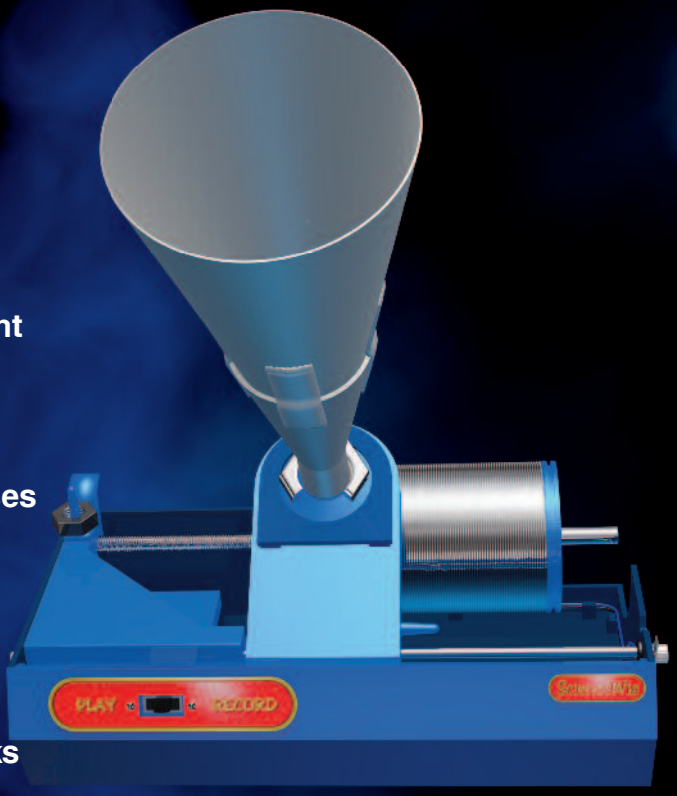
Sound

48 Page Book & Materials

Teacher's Pack
in multiples of
6, 12 or 24 sets per box

Build a working Edison Phonograph

Build, Record, Play
Explore Sound Vibrations!



- Build an Edison phonograph
- Record and playback your own sound recordings
- Vibrate your vocal cords and visualize your voice print
- Measure sound with a decibel meter
- Use an audiometer to test your sensitivity to sound
- Hear and transmit sounds many adults cannot hear!
- Make a kazoo, a banjo and play a tune on water glasses
- Play the sound location game
- Transmit sounds through solids, liquids and gases and determine if sound waves travel through a vacuum
- Use a slinky to model sound waves
- Bounce, absorb and amplify sound vibrations
- Listen to your heart beat and explore how your ear works
- Discover whether fish have ears, what dogs can hear and how dolphins, whales and bats use sound
- Spin a sound tube to Doppler shift sound

Item # **9907**

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NEW PRODUCT
Available Dec 2016

Cells

48 Page Book & Materials

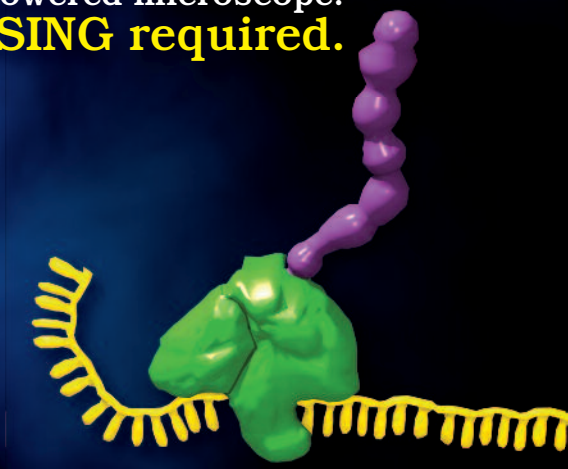
Teacher's Pack
in multiples of
6, 12 or 24 sets

Clip-on microscope

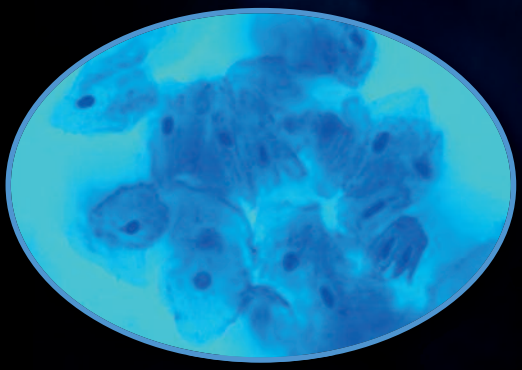
Transform the camera on a mobile device into a high powered microscope.
No FOCUSING required.

View cells with ease using a high-magnification microscope

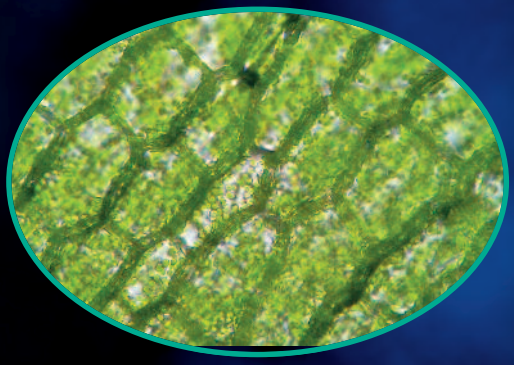
The universal clip-on is designed to work with all mobile devices



What do all cells do?
All cells make proteins
Extract gobs of protein from milk in a few easy steps
Model a protein factory inside a cell
Use online animations and interactives to discover more



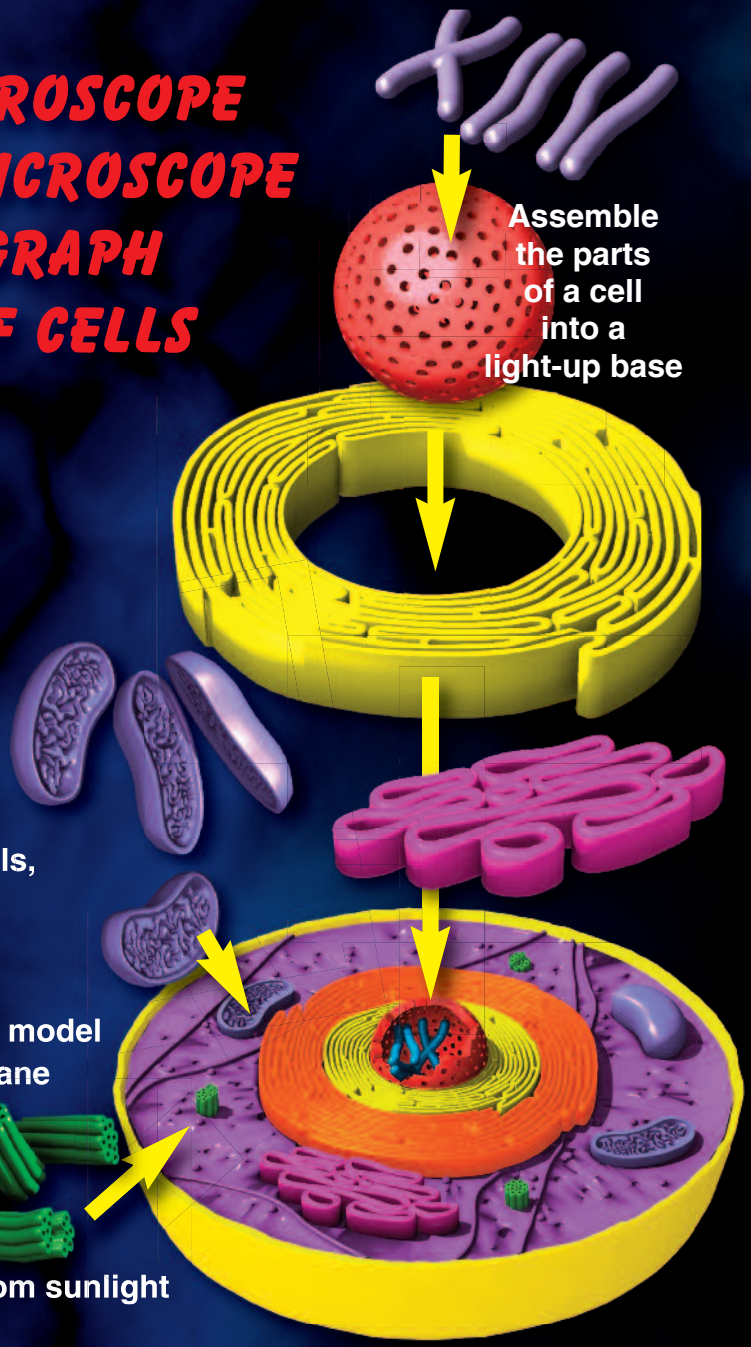
View your own cheek cells



Take a snapshot of plant cells

Watch singled celled critters swim

USE A TRADITIONAL MICROSCOPE ALONG WITH A CLIP-ON MICROSCOPE TO VIEW AND PHOTOGRAPH THE HIDDEN WORLD OF CELLS



Assemble the parts of a cell into a light-up base

Cells, Cells, Cells!

- View the hidden world of cells using your own high powered microscopes
- Use a traditional microscope to view slides
- Prepare a slide to view your own cheek cells
- Make slides to examine onion cells, leaf cells and animal cells
- Locate the nucleus in each individual cell
- Identify parts within your cells including cell walls, cytoplasm and plasma membrane
- Discover what all cells have in common
- Mold the parts of the cell with model magic
- Combine the parts of the cell together to make a model
- Explore the properties of a cell's plasma membrane with bubbleology
- Extract DNA from a fruit
- Extract a protein from milk
- Stain carbohydrates inside cells
- Experiment with how plant cells make energy from sunlight
- Investigate osmosis with a bouncy egg

Item # **9915**

Cool Circuits™

Light-up game board, 3D puzzle pieces, 41 puzzle challenges, solution book, batteries included -- Ages 8 +

A puzzle with 41 challenges

Try Me!

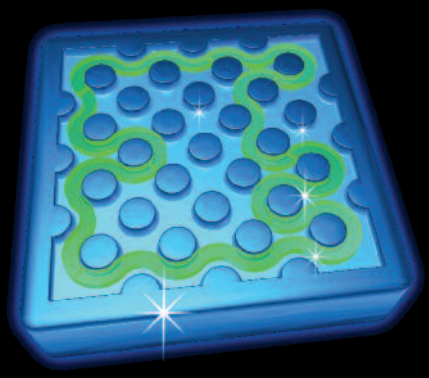
button triggers
cool blue lights
and music

Includes FREE ScienceWiz.com Trial Games!

Puzzle of the Year! ____ GAMES Magazine

A puzzle set that pleases the eye while engaging the mind.
Game comes with:

- eight 3-D fluorescent puzzle pieces
- light-up game board
- 41 puzzle challenge cards
- solution book
- batteries included



Challenges go from tutorial
to practically impossible.

As you solve each puzzle, the light show begins.

Free Demo with purchase of first case pack.

Item # 7850

6 30227 07850 8

3-way switch
OFF, ON & MUTE

ANNOUNCING Cool Circuits™ Junior

NEW PRODUCT

This brand new set of 40 unique puzzles for ages six and up includes the addition of **orange barriers** which simplify the challenges creating a junior edition of Cool Circuits!

Try Me! button triggers cool blue lights and music

Add these two pieces to complete the loop and make the light show begin!

Includes
- one light-up game board
- eight 3-D puzzle pieces
- six orange barriers
- 40 puzzle challenges
- solution book
- batteries included

Item # 7857

Chess™ Once a Pawn a Time

Instruction books, chess pieces and chess board

Tales from the Kingdom of Chess

Using the two captivating books included in **CHESS** *Once A Pawn A Time*, students truly enjoy learning and playing chess. The endearing chess characters and story-book style engages them in the game.

- **Book 1** introduces beginners to chess moves
- **Book 2** advances playing skills by exploring the strengths and weaknesses of each chess piece

This imaginative approach to teaching chess was developed by author Patzi Stewart over her 20 years as a chess teacher in the San Fransisco Bay Area.

Item # **9951** with standard Staunton pieces size: 3.0 inch king

Item # **7856** with deluxe custom chess pieces size 3.5 inch king

Deluxe version includes CUSTOM chess pieces, 8+

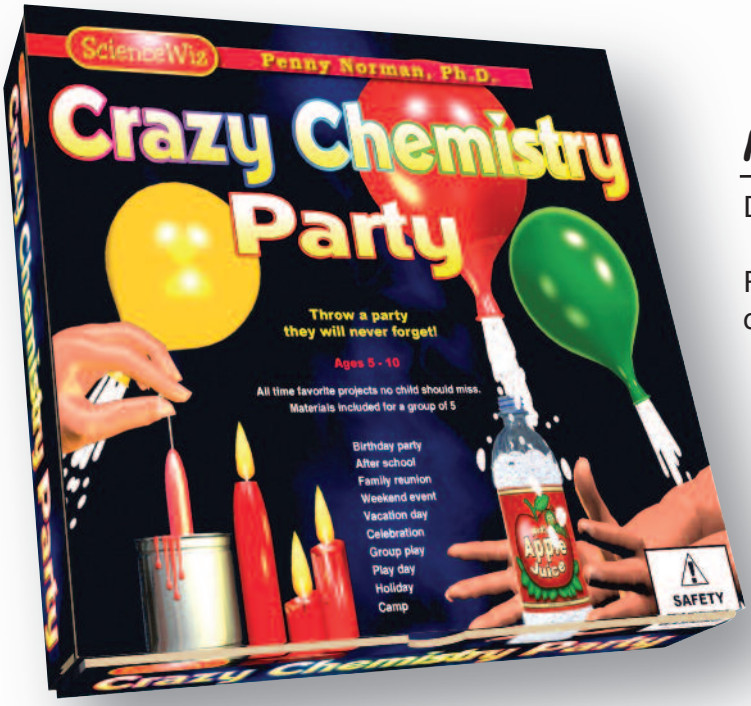
ScienceWiz

Science Party Packs
Designed for group events

Party Kits

Throw a party they will never forget!

Celebrate with a fantastic party at an incredible price.



Make science a celebration

Designed for up to 5 children.

Perfect for any parent planning a unique afternoon of play for elementary age children.

- Capture CO2 explosions
- Make candles
- Hold a bulging penny contest
- Learn the secrets of the upside down water trick
- Sink and float balloons

Item # **9022**

Blast off with bottle rockets

Designed to accommodate 3 to 14 children.

"Bottle rockets are a "must" for every student! A basic yet exhilarating project, building bottle rockets takes on a new edge...(with this) Bottle Rocket Party Kit."

___Lawrence Hall of Science, Berkeley, CA

Item # **9021**

Activity Kits

Instruction sheets and materials for ages 8 +

Build an electric car without a battery

Build a high performance electric car that runs without a battery!
Kit contains ultra capacitor, motor, wires, car base, car body, decals, wheels, axles, gears, washers and battery band.

Using an ultra capacitor instead of a battery, your car can accelerate almost instantly to race-car speeds. Ultra capacitors can be charged very quickly and be recharged 100,000s of times without wearing out.

Item # **8051**

Instant and reusable

Grow giant, dinner plate sized, star burst crystals in less than a minute! The crystals can be reused to create a variety of structures including crystal sculptures and poured solutions that literally freeze in mid-air. Amazing!

Crystals can be reheated and reused dozens of times.
Safe materials for children to use.

Item # **8050**

Evergreen Tree Puzzle

3 puzzles in one

Easy, medium, challenging!

Five wooden pieces in a two-sided frame

Item # **7860**

NEW PRODUCT

ScienceWiz

www.ScienceWiz.com | sales@ScienceWiz.com

About Us

Beautiful step-by-step instructions and child appropriate materials encourage independent learning through play. An extraordinarily talented team of scientists, teachers and artists have developed these materials. Their dedicated efforts over many years has led to the creation of the ScienceWiz™ line.

About the Author

Penny Norman, Ph.D. earned a doctoral degree in Biophysics from U.C. Berkeley. She became involved with the development of primary grade science materials through volunteer work, which she began as her own children started school. During this process she became deeply concerned about the limited exposure of elementary age students to the physical sciences. Her concern has translated into a 15 year effort to test and revamp science materials for the primary grades. Her work with children developed into a product line initially under the auspices of grants from the National Science Foundation and the Franklin Foundation. Her published titles reflect Dr. Norman's extensive testing and involvement with children and teachers and her love and commitment to both.

About the Editor

Ann Einstein, M.A.T. from George Washington University in Washington D.C., was a teacher in the Berkeley Unified School District. She has been involved with the education of children for most of her adult career as a director of early childhood education programs, as a teacher in gifted and talented programs and most recently as an elementary education teacher. Ann brings a clarity of mind and the capacity to see things through a child's eyes to the editing process. To quote an Einstein of an earlier generation:

"We never cease to stand like curious children before the great Mystery into which we were born."

- Albert Einstein

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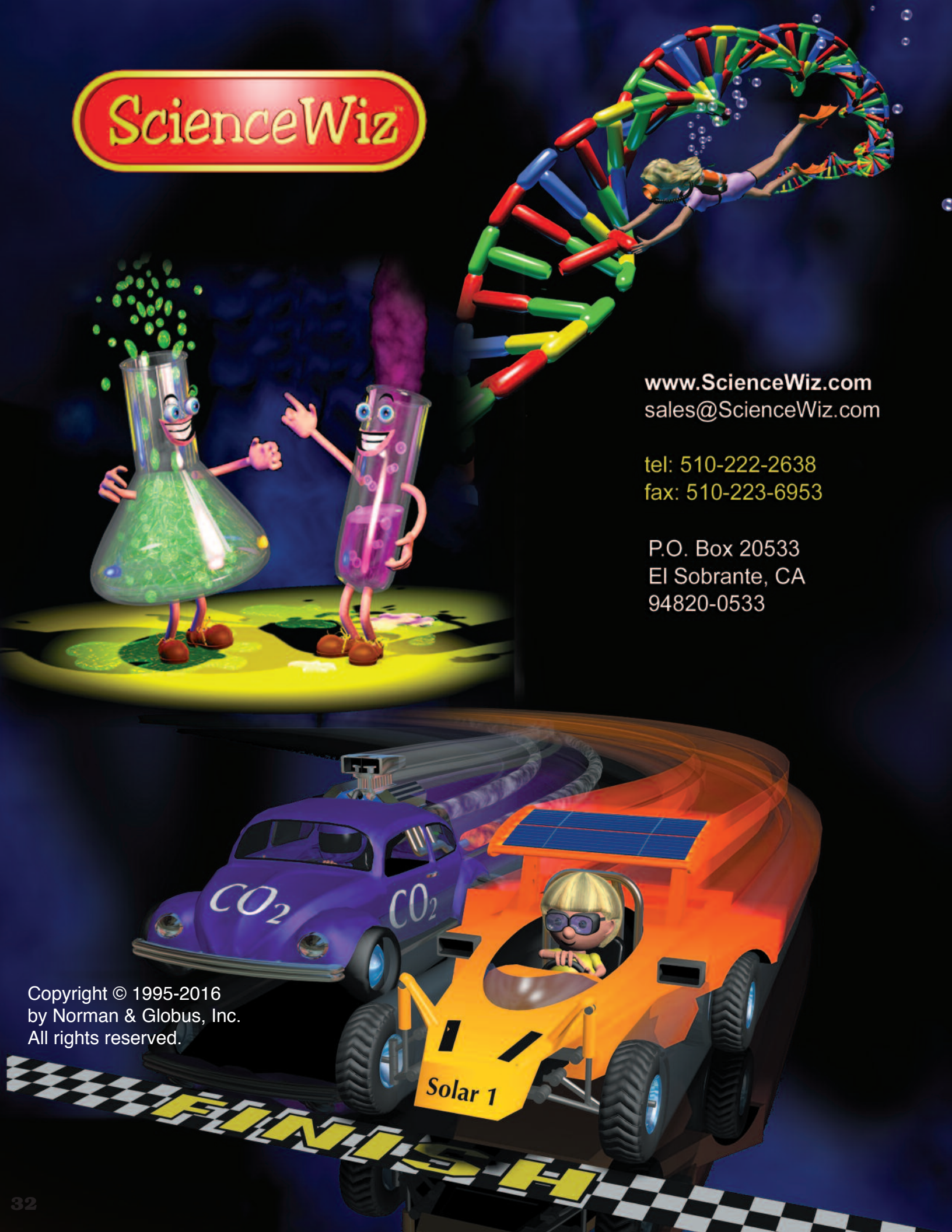

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