ELENCO®
Learn by doing.
Leader of Innovative Toys and Educational Products
ELenco celebrates 46 years as a leader in STEM education

From its humble roots in a Chicago-area basement to a leader in the STEM movement, Elenco -- the makers of SNAP CIRCUITS® -- looks ahead to a bright future.

Wheeling, Illinois – History in STEM: In 1972, Elenco’s founder, Gil Cecchin, began building Elenco’s first product, a color bar generator for television repairmen, in his basement in the Chicago suburb of Niles, Illinois. Gil came from a poor, Italian immigrant family and worked his way up to become an electrical engineer at Motorola, with over 25 patents, and leading a team of engineers that made color TV accessible and affordable to consumers. One of Elenco’s first customers was a mail-order, educational provider. Elenco grew in the ’70s, ’80s and ’90s by supplying technical schools, colleges, and high schools across the country with educational kits and products that taught the basics of electronics and engineering. Elenco was STEM before the term “STEM” even existed. Gil wanted to share his passion for electronics and engineering and he felt the best way to learn was by doing. Thus, Elenco’s trademark -- Learn by doing® -- was born.
<table>
<thead>
<tr>
<th>Category</th>
<th>Pages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Snap Circuits®</td>
<td>4-17</td>
</tr>
<tr>
<td>Project Labs</td>
<td>18-19</td>
</tr>
<tr>
<td>Tree of Knowledge®</td>
<td>20-25</td>
</tr>
<tr>
<td>Science Kits</td>
<td>26-31</td>
</tr>
<tr>
<td>Microscopes &amp; Telescopes</td>
<td>32-37</td>
</tr>
<tr>
<td>Globes</td>
<td>38</td>
</tr>
<tr>
<td>Dinosaurs</td>
<td>39</td>
</tr>
<tr>
<td>Jr. Scientist</td>
<td>40</td>
</tr>
<tr>
<td>Leonardo Da Vinci</td>
<td>41-43</td>
</tr>
<tr>
<td>Solar Kits</td>
<td>44</td>
</tr>
<tr>
<td>OWI®</td>
<td>45-55</td>
</tr>
<tr>
<td>Robot Kits</td>
<td>56-58</td>
</tr>
<tr>
<td>Radio Kits</td>
<td>59-60</td>
</tr>
<tr>
<td>WEmake™</td>
<td>61-64</td>
</tr>
<tr>
<td>Soldering Kits</td>
<td>65</td>
</tr>
<tr>
<td>Component Kits</td>
<td>66-69</td>
</tr>
<tr>
<td>Engino®</td>
<td>70-77</td>
</tr>
<tr>
<td>Timberkits™</td>
<td>78-79</td>
</tr>
</tbody>
</table>

**LEGEND**

- **Required**
- **Uninflated Balloons**
- **Magnets**
- **Uninflated**
- **Smart-phone Interface**
- **Smart-phone & Tablet Interface**

**CHOKING HAZARD.**
Small Parts. Not for children under 3 years old. This warning pertains to all products in this catalog.
ABOUT SNAP CIRCUITS®: Elenco’s Snap Circuits® makes learning electronics easy and fun! Just follow the colorful pictures in our manual and build exciting projects, such as FM radios, digital voice recorders, AM radios, burglar alarms, doorbells, and much more! You can even play electronic games with your friends. All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics. SNAP CIRCUITS® are endorsed by educators worldwide and used in schools, libraries, museums, STEM programs and at home. Many of today’s rising engineers, inventors, architects and educators learned the basics of technology by playing and creating with SNAP CIRCUITS®. The patented safety device unique to SNAP CIRCUITS® branded products makes learning circuitry safe. No tools required. Uses “AA” batteries, unless otherwise indicated.

SNAP CIRCUITS® products have won many awards, including: Toy of the Year (TOTY), ASTRA’s Best Toys for Kids, Parents’ Choice Recommended, Good Housekeeping’s Best Toy, Family Choice, National Parenting Publications Awards (NAPPA Gold), Children’s Choice and Dr. Toy (100 Best Children’s Products, 10 Best Educational Products, Green Toy Company).

NEW

SNAP CIRCUITS® BRIC: STRUCTURES
Model SC-BRIC1

Energize your brick building experience with SNAP CIRCUITS® BRIC: STRUCTURES! Kids can use their imagination to combine SNAP CIRCUITS® with ordinary building bricks and make endless combinations of construction and circuitry. With patent-pending, Bric-2-Snap technology, kids can wire up their brick builds with SNAP CIRCUITS® lights, sounds, moving parts and 3-D circuits to invent almost anything and make it go! Kids love to create and invent from what they have at home. Instead of just building a structure, now kids can learn how to build the circuit that makes the lights on a skyscraper illuminate or that makes the gears on a drawbridge move! Elenco’s team of engineers has come up with a great way for kids to Learn By Doing® and be creative with their everyday, building bricks. There’s no limit to what kids can create with SNAP CIRCUITS® BRIC: STRUCTURES!

Award-winning SNAP CIRCUITS® products teach kids to have fun learning electricity, engineering, circuitry and more. SNAP CIRCUITS® features building components with snaps to assemble electronic circuits that function like the printed circuit board found in most electronic products.

- 20 SNAP CIRCUITS® component parts
- 75 Bric-2-Snap adapters
- Over 140 fully compatible building bricks
- Full-color, easy-to-read project manual

Item #: SC-BRIC1
UPC: 756619012360
Case Pack: 6 Box
SNAP CIRCUITS® 3D MEG
Model SC-3DMEG

SNAP CIRCUITS® 3D-MEG uses building pieces with snaps to make realistic, 3-D circuits, like those found in homes, electronic equipment and skyscrapers. SNAP CIRCUITS® Kids can build their own house with roof lights and ceiling fans while finding out how all the electric and mechanical functions work! Learn about rotating lights, security systems, how to vary speed of a fan, how to make motors more efficient, how switches can be controlled by magnets, how generators work and much more! After finishing all the projects in the set, kids can create their own original circuits.

- Contains unique “stabilizers” for building amazing 3D structures. Kids love making their circuit inventions into 3D!
- Includes over 60 parts, including: 3D Rotating Snaps, unique, two-sided base grid with thru-snaps, rotating mirror ball, multiple-sized gears, rotating LED lights, fiber optic tree, ceiling fan, melody IC, magnet switch and so much more.
- Build over 160 projects.
- Includes bonus circuit projects for users and owners of SNAP CIRCUITS® 3D Illumination to build bigger and better structures!

SNAP CIRCUITS® 3D ILLUMINATION
Model SC-3Di

SNAP CIRCUITS® 3D Illumination uses building blocks with snaps to build the different electrical and electronic circuits in the projects. Each block has a function: there are switch blocks, light blocks, battery blocks, different length wire blocks, etc. These blocks are different colors and have numbers on them so that you can easily identify them. The blocks you will be using are shown as color symbols with level numbers next to them, allowing you to easily snap them together to form a circuit. Build over 150 projects or combine with other Snap Circuits® sets to build even more unique structures.

- Exciting Light Effects
- 3-Color Light Tunnel, Mirrors & Reflecting Circuits
- Magnet & Magnetic Switch
- Projector With 6 Images
- Includes vertical stabilizer, base grid stabilizer & base grid support.
SNAP CIRCUITS® BEGINNER
Model SCB-20
Begin your Snap Circuits® Experience with a wonderful introduction to problem solving, following directions and the satisfaction of a job well done.
- The included 14 parts build over 20 projects.
- Extra safety features for younger engineers, 5 and up.
- Easy-to-follow color manual diagrammed like no other Snap Circuits® Kit.

Item #: SCB-20
UPC: 756619010861
Case Pack: 12 Box

SNAP CIRCUITS® JR.
Model SC-100
- Electrical components provide students with hands-on experience designing and building models of working electrical circuits.
- Snap-together parts require no tools & ensure correct connections
- Includes 30 parts and instructions for over 100 projects
- Clear and concise illustrated manual included & available online

Item #: SC-100
UPC: 756619002415
Case Pack: 12 Box

SNAP CIRCUITS® JR. SELECT
Model SC-130
- With Snap Circuits® - YOU Learn by Doing®
- 133 projects clearly outlined in the color project manual.
- Projects utilize a glow-in-the-dark flying propeller, phototransistor, LED, resistor, IC’s, a DC motor and much more.

Item #: SC-130
UPC: 756619010847
Case Pack: 12 Box
Snap Circuits® makes learning electronics easy and fun! Just follow the colorful pictures in our manual and build exciting projects such as AM radios, burglar alarms, doorbells and much more! You can even play electronic games with your friends. All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics. No tools required. Includes Projects 1-305 manuals (includes all of the SC100 projects and 200 new ones!)

- Contains over 60 Snap-Together parts.
- Build over 300 exciting projects.
- Electrical components provide students with hands-on experience designing and building models of working electrical circuits.
- Snap-together parts require no tools and ensure correct connections.
- Clear and concise illustrated manual included & available online

SNAP CIRCUITS® PRO
Model SC-500
Contains over 75 parts including voice recording IC; FM radio module, analog meter, transformer, relay and 7-segment LED display. Build over 500 projects. Hours of educational fun; a great gift too! Includes all of the SC300 projects and 200 more! Includes Projects 1-511 manuals.

- Contains over 75 parts & over 500 exciting projects.
- Contains 73 computer interfaced experiments.
- Electrical components provide students with hands-on experience designing and building models of working electrical circuits.
- Snap-together parts require no tools and ensure correct connections.
- Clear and concise illustrated manual included & available online
SNAP CIRCUITS® EXTREME
Model SC-750
- Contains over 80 parts & over 750 exciting projects.
- Includes 70 computer interfaced projects and CI-73 manual
- Electrical components provide students with hands-on experience designing and building models of working electrical circuits.

Item #: SC-750
UPC: 756619002958
Case Pack: 3 Box

SNAPINO
Model SC-SNAPINO
Snapino is an introduction to the open source Arduino® Hardware software environment. Learn to code and utilize your Snap Circuits modules at the same time!
- A great introduction to coding and the Arduino platform
- Arduino is a microcontroller used in robotics and other applications

Item #: SCSNAPINO
UPC: 756619011851
Case Pack: 12 Box

SNAP CIRCUITS® STEM
Model SC-STEM1
Learn about electricity and magnetism, and how they relate to each other! SNAP CIRCUITS® STEM reinforces STEM (Science/Tech/Engineering/Math) concepts while having fun and being creative!
- Build 85 creative projects.
- Contains over 45 parts, including: Lamps, LEDs, relay, magnet & magnetic Switch, meter, 2 electromagnets including one kids can build, motor and so much more
- Educational manual with a focus on STEM and getting kids excited as they learn.

Item #: SC-STEM1
UPC: 756619011905
Case Pack: 12 Box
SNAPTRICITY®
Model SCBE-75
- Learn how electricity and magnetism can be used to make each other.
- Educational toy: projects that relate to electricity in the home and magnetism and how it is used.
- Includes: meter, electromagnet, motor, lamps, switches, fan, compass and electrodes.
- Build over 75 projects
- Contains over 40 parts

Item #: SCBE-75
UPC: 756619006253
Case Pack: 12 Box

SNAP CIRCUITS® GREEN
Model SCG-125
- Learn about “Green Energy” options.
- Contains over 40 parts. Build over 125 projects investigating alternative energy strategies.
- Includes full-color manual with over 100 pages and separate educational manual.
- Features: Hand Crank, Solar Cell, FM Radio, Energy Compartment, Rechargeable Battery, Windmill, Clock Analog Meter

Item #: SCG-125
UPC: 756619007199
Case Pack: 6 Box

SNAP CIRCUITS® MOTION
Model SCM-165
- Over 50 parts and over 165 projects to complete; all motion and physics focused.
- Experiment with gears ratios using various gears and pulleys.
- Gain valuable lessons in assembly and following instructions.
- Project manual includes large color illustrations and simple directions for projects.

Item #: SCM-165
UPC: 756619010397
Case Pack: 6 Box
Snap Circuits®

SNAP CIRCUITS® LIGHT
Model SCL-175
- Contains over 55 parts. Build over 175 exciting projects.
- Color organ controlled by smart-phone, voice or finger.
- Enjoy your music as the lights change to the beat.
- Snap-together parts require no tools and ensure correct connections.
- Clear and concise illustrated manual included & available online

Item #: SCL-175
UPC: 756619009186
Case Pack: 6 Box

SNAP CIRCUITS® SOUND
Model SCS-185
- Contains over 40 parts. Build over 185 exciting projects.
- Connect the unit to your smart phone and analyze sounds with downloadable apps.
- Includes voice changer: Record voice or music and play it back at different speeds.
- Snap-together parts require no tools and ensure correct connections.
- Clear and concise illustrated manual included & available online

Item #: SCS-185
UPC: 756619009698
Case Pack: 6 Box

SNAP CIRCUITS® ARCADE
Model SCA-200
Snap Circuits® Arcade is an exciting introduction to problem solving, following directions and the satisfaction of a job well done.
- 30 Snap Modules included to complete more than 200 projects
- Enjoy completing projects using a programmable Word Fan, Dual LED Display and a pre-programmed microcontroller.
- Clear & concise illustrated manual includes explanations for different Snap Modules and concepts.

Item #: SCA-200
UPC: 756619010854
Case Pack: 6 Box
Snap Circuits®

Snap Circuits®

SNAP ROVERS & COMBO KITS

RC SNAP ROVER®
Model SCROV-10
Have FUN building your own RC Snap Rover® using the colorful Snap Circuits® parts that snap together with ease. Guide your Snap Rover® with the easy-to-use remote control.

Item #: SCROV-10
UPC: 756619005614
Case Pack: 6 Box

DELUXE SNAP ROVER®
Model SCROV-50
Introducing the next generation of the RC Snap Rover®! Over 50 parts allow you to complete over 60 additional projects.
- Disc Shooter
- Digital Voice Recorder
- Music Sounds
- Over 40 Other Experiments
- Over 50 Parts
- Wireless Remote Control included
- Run up to three Rovers at once

Item #: SCROV-50
UPC: 756619006352
Case Pack: 4 Box

SOUND & LIGHT COMBO
Model SCC-350
Combination of Snap Circuits® Sound and Snap Circuits® Light Kits!
- Build over 350 projects
- Contains over 65 parts
- Color changing LED

Item #: SCC-350
UPC: 756619010434
Case Pack: 3 Box
MINI KITS

FLYING SAUCER PLUS
Model SCP-09
- Press and release the switch and watch the saucer rise into the air!
- 14 Projects

Item #: SCP-09
UPC: 756619010199
Case Pack: 6/24 Box

LED FUN
Model SCP-11
- Create your own colorful light show!
- 11 Projects

Item #: SCP-11
UPC: 756619010212
Case Pack: 6/24 Box

STROBE LIGHT & SOUND
Model SCP-14
- Adjustable-speed strobe light with sound effects.
- 14 Projects

Item #: SCP-14
UPC: 756619010243
Case Pack: 6/24 Box

BASIC ELECTRICITY
Model SCP-10
- Learn about basic electricity principles while having fun!
- 9 Projects

Item #: SCP-10
UPC: 756619010205
Case Pack: 6/24 Box

MOTION DETECTOR
Model SCP-13
- When motion is detected, a laser sound is emitted and the color LED flashes.
- 12 Projects

Item #: SCP-13
UPC: 756619010236
Case Pack: 6/24 Box

FM RADIO
Model SCP-12
- Build an FM radio that really works!
- 4 Projects

Item #: SCP-12
UPC: 756619010229
Case Pack: 6/24 Box
Snap Circuits®

UPGRADES & PARTS

UC-30A UPGRADE KIT
Converts SC-100 Snap Circuits® Jr. or SC-130 Snap Circuits® Select into SC-300 Snap Circuits®
Includes 33 new parts (AM radio components, transistors, IC’s, capacitors, resistors, and more) and 200 projects!

Item #: UC-30A
UPC: 756619012421
Case Pack: 20 Box

UC-40A UPGRADE KIT
Converts SC-100 Snap Circuits® Jr. or SC-130 Snap Circuits® Select into SC-500 Snap Circuits® Pro
Includes 42 new parts, AM/FM radio, recorder, meter & more, and 400 projects!

Item #: UC-40A
UPC: 756619012438
Case Pack: 5 Box

UC-50 UPGRADE KIT
Converts SC-300 Snap Circuits® into SC-500 Snap Circuits® Pro
Includes 12 new parts (recording IC, transformer, FM radio, meter, & more) and 200 projects!!

Item #: UC-50
UPC: 756619002903
Case Pack: 20 Box

UC-60A UPGRADE KIT
Converts SC-100 Snap Circuits® Jr. or SC-130 Snap Circuits® Select into SC-750 Snap Circuits® Extreme
Includes 49 new parts, CI-73 computer interface, solar panel, and more than 650 projects!

Item #: UC-60A
UPC: 756619012445
Case Pack: 5 Box

UC-70 UPGRADE KIT
Converts SC-300 Snap Circuits® into SC-750 Snap Circuits® Extreme
Includes 19 new parts, CI-73 computer interface, solar panel, and more than 450 projects!

Item #: UC-70
UPC: 756619005331
Case Pack: 5 Box

UC-80 UPGRADE KIT
Converts SC-500 Snap Circuits® Pro into SC-750 Snap Circuits® Extreme
Includes 7 new parts, CI-73 computer interface, solar panel, and more than 250 projects.

Item #: UC-80
UPC: 756619005348
Case Pack: 20 Box

Ages 8 & Up
CUSTOM STORAGE CASE
Model SNAPCASE7
Heavy duty plastic case with 2 custom foam inserts for housing your Snap Circuits® parts. Also includes a separate small case.

Item #: SNAPCASE7
UPC: 756619005461
Case Pack: 3 Box

COMPUTER INTERFACE FOR SNAP CIRCUITS®
Model CI-73
The CI-73 allows the SC-300 or SC-500 set to interface with a computer! With this module, you will learn about and use an oscilloscope and spectrum analyzer. Included FREE with SC-750!

Item #: CI-73
UPC: 756619005607
Case Pack: 6 Box

SNAP CIRCUITS® BATTERY ELIMINATOR
Model AC-SNAP
Works with all models of Snap Circuits® except Snap Rovers
Transformer UL Approved

Item #: AC-SNAP
UPC: 756619005744
Case Pack: 16/48 Box

DELUXE SNAP ROVER® UPGRADE KIT
Model UC-90
Upgrade your Snap Rover® to a Deluxe Snap Rover®!
- Includes the disc launcher, parts & manual for over 40 projects.

Item #: UC-90
UPC: 756619006680
Case Pack: 5 Box
SNAP CIRCUITS® HOME LEARNING
Model SCHL1
The manual emphasizes the practical applications of electronics. This set also teaches how to conduct scientific investigation, and the activities develop basic skills needed in today’s world.

Item #: SCHL1
UPC: 756619010625
Case Pack: 12 Box

SNAP CIRCUITS® LOGIC GATES
Model SCDLG100
Introduction to logic gates including NOT, AND, OR, NAND, NOR, and XOR, with Snap Circuits® examples of each.

Item #: SCDLG100
UPC: 756619010601
Case Pack: 5 Box

SNAP CIRCUITS® LOGIC GATES & CIRCUITS
Model SCDLG200
Introduction to logic gates including NOT, AND, OR, NAND, NOR, and XOR, with Snap Circuits® examples of each. This set also uses those gates in combinations to make more complex logic circuits and to demonstrate logic principles.

Item #: SCDLG200
UPC: 756619010618
Case Pack: 5 Box
TRAINING PROGRAM
Model SC-100R

Snap Circuits® uses building pieces with snaps to assemble different electronic circuits on a simple “rows-and-columns” base grid that functions like the printed circuit board found in most electronic products. Each component is easily identifiable by a different color and functional purpose.

The Model SC-100R is an exploration of the electronic components included with the SC-100 Snap Circuits®. Ideal for use in home schooling, middle schools, and high schools where students will grasp the basic principles of electronics.

- Same as SC100 with the Case; Student Guide (# 753294) and Teacher Guide (# 753290) Included!
- The Model SC-100R is an exploration of the electronic components included with the SC-100 Snap Circuits®. Ideal for use in home schooling, middle schools and high schools, where students will grasp the basic principles of electronics.

Includes Student & Teacher Guides and Case

Item #: SC-100R
UPC: 756619003283
Case Pack: 10 Box

TRAINING PROGRAM
Model SC-300R

The Model SC-300R is an in-depth exploration of the electronic components included with the SC-300 Snap Circuits®. Ideal for use in home schooling, middle schools and high schools, where students will grasp the basic principles of electronics. CI-73 - Computer interface with 70 extra experiments available

Topics Covered:
- Resistors
- Switches
- Capacitors
- Series Circuits
- Transistors
- Parallel Circuits
- Integrated Circuits
- Motors

Two project books, Student Guide and Teacher Guide included

Item #: SC-300R
UPC: 756619003061
Case Pack: 3 Box
TRAINING PROGRAM
Model SC-500R

The Model SC-500R is an in-depth exploration of the electronic components included with the SC-500 Snap Circuits® Pro. Ideal for use in home schooling, middle schools and high schools, where students will grasp the basic principles of electronics.

The Student Guide for the SC-500R includes 108 pages of educational curriculum. Written with the help of educators, the Student Guide is essential in covering all topics related to electricity and electronics being taught in middle schools and above. Includes real world applications and problem solving quizzes.

The Teacher Guide is meant to prepare educators for proper introduction of Snap Circuits® and guide them through each chapter with quizzes for students to test their knowledge.

- CI-73 - Computer interface with 70 extra experiments available

*Includes Student & Teacher Guides*

Item #: SC-500R
UPC: 756619003078
Case Pack: 3 Box

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TRAINING PROGRAM
Model SC-750R

The Model SC-750R is an in-depth exploration of the electronic components included with the SC-750 Snap Circuits® Extreme. Ideal for use in home schooling, middle schools and high schools, where students will grasp the basic principles of electronics.

The Student Guide for the SC-750R includes 138 pages of educational curriculum. Written with the help of educators, the Student Guide is essential in covering all topics related to electricity and electronics being taught in middle schools and above. Includes real world applications and problem solving quizzes.

The Teacher Guide is meant to prepare educators for proper introduction of Snap Circuits® and guide them through each chapter with quizzes for students to test their knowledge.

*Includes Student & Teacher Guides*

Item #: SC-750R
UPC: 756619005621
Case Pack: 3 Box
**50-IN-ONE ELECTRONIC PLAYGROUND**
Model EP-50

Build over 50 electronic projects including a finger touch lamp, a metal detector, a transistor radio and an alarm. Learn about voltage, currents, resistors, capacitors, and much more. Uses spring hook-up method. This lab is commonly used in the Bob Jones Home School Curriculum. **OVER 50 ELECTRONIC PROJECTS**

Specifically designed for beginners.

- Voltage
- Current
- Resistors
- Capacitors
- Transistors
- Diodes
- Transformers
- Speakers
- Antennas

Uses spring hook-up method

**Item #: EP-50**
**UPC:** 756619000930
**Case Pack:** 12 Box

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**ELECTRONIC PLAYGROUND 130**
Model EP-130

Start a great hobby in electronics. Spring coil connections make it safe and easy for anyone to use. Includes detailed, step-by-step illustrated manual for easy construction. Comes with a built-in speaker, a 7-segment LED display, two integrated circuits and rotary controls. Everything you need to build an AM broadcast station, an electronic organ, strobe lights, a timer, logic circuits and many more! **OVER 130 ELECTRONIC PROJECTS**

A great introduction to the world of electronics!

Uses spring hook-up method

**Item #: EP-130**
**UPC:** 756619006987
**Case Pack:** 6 Box
75-IN-ONE ELECTRONIC PROJECT LAB
Model MX-905

- Easy-to-read, illustrated, lab-style manual included.
- Learn basic principles of electricity, electronics, physics and magnetism!

Uses spring hook-up method

Item #: MX-905
UPC: 756619001791
Case Pack: 12 Box

200-IN-ONE ELECTRONIC PROJECT LAB
Model MX-907

- Easy-to-read, illustrated, lab-style manual included.
- Learn about transistors, transformers, diodes, capacitors, oscillators, basic electronic circuits, and schematic symbols.
- With built-in speaker, earphone, meter, seven-segment LED digital display, out-front controls and more!

Uses spring hook-up method

Item #: MX-907
UPC: 756619001791
Case Pack: 12 Box

300-IN-ONE ELECTRONIC PROJECT LAB
Model MX-908

- A classic electronics trainer with 300 experiments.
- Learn basic principles of electronics and electricity, physics and magnetism.
- Uses the spring-wire connection and breadboard methods.
- Includes easy-to-read, lab style, illustrated manual.

Uses spring & breadboard hook-up method

Item #: MX-908
UPC: 756619001807
Case Pack: 12 Box
SUPER CHEM 120
Model EDU-8355
- 120 activities with fun science and kitchen chemistry.
- Make monster dough, grow crystals, and create secret writing.
- Observe the way plants react to chemicals and light.
- A full-colored, simple-to-read instruction manual is included with this kit.

Item #: EDU-8355
UPC: 756619006086
Case Pack: 6 Box

SUPER CHEM
Model EDU-8350
- 100 activities with fun science and kitchen chemistry.
- Make a geyser, cola volcano, gas cannon, invisible ink, and cheese.
- Learn how to remove an egg shell without touching it, how to find iron in cereal, and much more.
- A full-colored, simple-to-read instruction manual is included with this kit.

Item #: EDU-8350
UPC: 756619006079
Case Pack: 6 Box

CHEMISTRY LAB KIT
Model EDU-36734
Conduct your own real chemistry experiments with the Edu Science Chemistry Lab Kit. The Chemistry Lab is a science kit that consists of a collection of safe experiments to carry out using both the chemicals and equipment included. The set comes with 8 assorted chemicals in plastic containers with safety caps, and 20 pieces of quality equipment. A comprehensive chemistry lab instruction booklet detailing 80 experiments is included.

Item #: EDU-36734
UPC: 769188367342
Case Pack: 6 Box
**CHEM-SCIENCE**
Model EDU-7075
- Over 60 experiments
- Child friendly, engaging chemistry set
- Safe and simple materials
- Explore home science and kitchen chemistry
- Great for a science fair project

**WEATHER**
Model EDU-7074
- Over 30 fascinating activities all about weather and climate.
- Build your own barometer, weather vane, rain gauge, and hydrometer.
- Observe the weather traits and see how they’ll affect tomorrow’s weather.

**DETECTOLAB**
Model EDU-7080
- A Great starter kit for those interested in FORENSIC SCIENCE, CRIMINAL SCIENCE INVESTIGATIONS, and learning about private detectives.
- Over 65 activities with fingerprints, chromatography, cipher codes, identity detection and more
- Kit includes 30X microscope and necessary lab equipment.
**MY SENSES**
*Model EDU-7086*

This kit is part of our Body Awareness Science Series, exploring the five senses: sight, hearing, smell, taste, and touch. Perform over 50 fascinating experiments. Use a genuine stethoscope, make a telescope with real lenses and create rainbows with a prism. Prepare perfume and stink bombs with chemistry lab equipment. Learn how to read and send messages in Braille. Also includes many activities suitable for party games.

**HYDROLAB**
*Model EDU-8740*

Complete greenhouse system for cultivating plants and vegetables in an “indoor” environment, without soil, using a modern Hydroponics system. The kit comes with a base, adjustable translucent observation cover, four growing trays, fertilizer tank, safe chemicals and bedding for propagating the growth of plants.
CRYSTAL WONDER
Model EDU-CM007
- Make crystals of all sizes, shapes and colors - includes 12 different salts
- An exciting and interesting way to learn science

WORM HABITAT ECO-GROW KIT
Model EDU-37700
- Plastic worm housing
- 2 Covers
- 4 Packets of colored sand
- Instruction sheet
- Worms NOT included
- Soil NOT included
- Seeds NOT included

H2O CLOCK
Model EDU-3130
Run the clock without batteries. Use Fruit Juice, Cola, even Soy Sauce to Generate Electricity!
- Clock Module
- Clock Module Base
- Water Column with Lid
- Zinc Electrode
- Copper Electrode
- Wire Contact Spring
- Washers
**CRYSTAL RADIO**
*Model EDU-3010*
Build your own working crystal radio. Look for and pick up radio stations. Earphone and antenna included. No tools or batteries required. Remember the days of the first radio.

**ROBOTICS**
*Model EDU-7090*
Join forces with the world of robotics and assemble 3 fantastic robots. One robot detects objects using infrared rays, the wake-up robot is sensitive to light and the third robot is operated by any TV remote control. A separate circuit and body are supplied for each robot: just fix the selected circuit onto the robot base and add the corresponding transparent body. Includes three pre-assembled PC boards and three robot bodies, which allows you to build three different robots, one at a time.

**REMOTE CONTROL ROBOT**
*Model EDU-4001*
Build your own remote control robot controlled by your TV remote! The kit also includes parts for inventing your own robot arm.
TREASURE FINDER
Model EDU-4002
Find hidden riches with this treasure finder robot! This robot uses a metal detector to discover metallic objects. The kit also includes parts for inventing your own robot arm.

Item #: EDU-4002
UPC: 756619005874
Case Pack: 12 Box

WAKE ME ROBOT
Model EDU-4003
The Wake Me Robot uses a light sensor, making it sensitive to light. The kit also includes parts for inventing your own robot arm.

Item #: EDU-4003
UPC: 756619005881
Case Pack: 12 Box

THE GUIDE ROBOT
Model EDU-4004
The Guide Robot senses objects in its path using an infrared ray. The kit also includes parts for inventing your own robot arm.

Item #: EDU-4004
UPC: 756619005898
Case Pack: 12 Box
Science Kits

**8PC. 10” HUMAN ANATOMY MODEL**
Model EDU-41006AR
What is AR? AR (or augmented reality) is the integration of digital information with the user’s environment in real time.

**Features:**
- Hand painted in vivid and natural colors.
- 8 Dissectible parts
- ABS base
- Fully illustrated color instruction manual.
- Human Anatomy AR & app

Item #: EDU-41006AR
UPC: 769188410062
Case Pack: 6 Box

**11PC. 20” HUMAN ANATOMY MODEL**
Model EDU-41007AR
What is AR? AR (or augmented reality) is the integration of digital information with the user’s environment in real time.

**Features:**
- Hand painted in vivid and natural colors.
- 11 Dissectible parts
- ABS base
- Fully illustrated color instruction manual.
- Human Anatomy AR & app

Item #: EDU-41007AR
UPC: 769188410079
Case Pack: 4 Box

**FROG DISSECTION KIT**
Model EDU-37307
- Authentically detailed frog body
- Removable texture organs
- Cross sections show muscle structure
- Glow-in-the-dark “X-ray” included
- Child-safe lab tools included
- 12 removable parts

Item #: EDU-37307
UPC: 769188373077
Case Pack: 4 Box
RC BLACK WIDOW
Model EDU-37526

• Full-function: moves forward, left, right, stops and turns in reverse.
• RC Black Widow performs simulated walking action with moving legs.
• Actual motion is achieved through hidden drive-wheels.
• Works indoors and outdoors on smooth surfaces with 25 foot (8 meter) range!

Item #: EDU-37526
UPC: 769188375262
Case Pack: 4 Box

4x 6x TWO WAY BUG VIEWER
Model EDU-36888

4x, 6x Two Way Bug Viewer

• Allows 2 people to view simultaneously.
• Ventilated bug viewer with base and easy-grip handles.
• 6x magnification (top view)
• 4x magnification (bottom view).
• Includes rubber spider.

Item #: EDU-36888
UPC: 769188368882
Case Pack: 12/24 Box

3x28MM BINOCULARS
Model EDU-BN328

Binoculars

• 3x Magnification for easy viewing
• Easy for small hands to hold
• 3 Assorted colors: Yellow, red, blue
• Sturdy child-friendly construction

Item #: EDU-BN328
UPC: 769188367335
Case Pack: 12/48 Box
Science Kits

AQUA VIEWER
Model EDU-37720
- Telescopic viewer for land-based viewing of sub-surface creatures in streams, ponds, lakes and tide pools
- Built-in, sealed LED light for illuminating dark or murky conditions and submarine plants and creatures at 5x magnification
- Easy grip, folding handle means your Aqua Scope fits easier into beach bags and backpacks
- Extendable from 14.75" to 22.75"

Item #: EDU-37720
UPC: 769188377204
Case Pack: 6 Box

METAL DETECTOR WITH BEEP
Model EDU-36749
- Aluminum extension from 23” (58cm) to 38” (96cm)
- High-low sensitivity adjustment
- LED display
- Durable ABS body
- Low electrical consumption
- Instruction manual

Item #: EDU-36749
UPC: 769188367496
Case Pack: 12 Box

PERISCOPE
Model EDU-37363
I spy with my little eye... View objects over walls and around corners! Periscope extends from 21” to 29” and features adjustable handle and spy view.

- Persiscope extends from 21”” to 29””
- Adjustable handle
- Spy view

Item #: EDU-37363
UPC: 769188373633
Case Pack: 6 Box
Science Kits

WATER FILTRATION KIT
Model EDU-37677
- Gravel
- Sand
- Active Carbon
- 100mm filter paper
- 45mm filter paper
- Measuring cup

Item #: EDU-37677
UPC: 76918836771
Case Pack: 6 Box

SURVIVAL KIT
Model EDU-36895
- Foldable 5-in-1 design
- 3x Binoculars
- Whistle
- Mirror
- Compass
- Emergency signal
- Instruction manual

Item #: EDU-36895
UPC: 769188368950
Case Pack: 12/24 Box

INSECT EXPLORING KIT
Model EDU-BL131
- Multi-level ant house
- Ant tunnel
- Ant platform
- 2-way viewer
- Allows 2 people to view simultaneously
- Top view 4x magnification
- Easy grip handles
- Fully illustrated color instruction booklet

Item #: EDU-BL131
UPC: 769188369087
Case Pack: 12 Box
Science Kits

BUG COLLECTOR SET
Model EDU-37310
Bug Collector Set
- Bug collector can gently collect the little giants without hurting them.
- Observe and discover living insects and plants.
- Check and look around with bug collector, net and tweezers for insects and plants.

Item #: EDU-37310
UPC: 769188373107
Case Pack: 6 Box

BUG HOUSE
Model EDU-37683
Bug House
- Snap lock lid for easy capture and release
- Ventilated design
- Use the bug house to observe living creatures
- Great for outdoor play

Item #: EDU-37683
UPC: 769188376832
Case Pack: 12 Box

BUG CATCHING NET
Model EDU-37682
The Bug Catching Net has an extendable handle from 21.9” to 31.5” with a 7.7” diameter net. Great for outdoor play!
- Extendable handle from 21.9” (55.5cm) to 31.5”(80cm).
- A 7.7” (19.6cm) diameter net.
- Great for outdoor play!

Item #: EDU-37682
UPC: 769188376825
Case Pack: 12 Box
ROCK TUMBLER
Model EDU-36793

Rock Tumbler:
- 4 oz. gemstone rocks
- 1 coarse grinding powder
- 1 fine grinding powder
- 1 polishing powder
- 1 fine polishing powder

Jewelry Making:
- 18” silver tone necklace chain & 2 adjustable rings
- 1 key chain
- 1 pair hanging earring wires
- 3 setting holders in 3 styles
- 1 jump ring connector
- Glue

AC adapter included. | UL approved

Item #: EDU-36793
UPC: 769188367939
Case Pack: 4 Box

DIY SOLAR SYSTEM
Model EDU-37365

• Stripe of paint pots
• Brush
• Sustain circumgyrate seat
• Sustain arm
• Circumgyrate arm
• Sand paper
• Saturn ring template
• Steel bars
• Plastic Parts

Item #: EDU-37365
UPC: 756619012452
Case Pack: 12 Box

GALAXY STAR FINDER
Model EDU-37364

• Star projector
• Rotational on/off switch
• Light on/off switch
• Instructional pointer
• CyberSky software CD included
• Requires six (6) “AA” batteries

Item #: EDU-37364
UPC: 769188373640
Case Pack: 4 Box
Microscopes & Telescopes

HANDHELD MICROSCOPE
Model EDU-37674
• 4” Handheld microscope
• Strap
• Stand
• Prepared slide
• 20x, 40x
• Light included
• 3-LR44 Batteries included

Item #: EDU-37674
UPC: 769188376740
Case Pack: 12/24 Box

SLIDE MAKING KIT
Model EDU-36700
• Micro Hatchery®
• 2 Prepared slides
• 10 Blank slides
• 12 Cover glasses
• 12 Statical slide covers
• 12 Blank labels
• Vial of eosin
• Vial of shrimp eggs
• Vial of methylene blue
• Tweezers
• Dropper
• Stirring rod
• 3x / 6x Magnifier
• Safety goggles
• Vial of sodium chloride
• 2 10ml Graduated cylinders
• 2 Collecting vials
• Instruction manual

Item #: EDU-36700
UPC: 769188367007
Case Pack: 24 Box

PREPARED MICRO-SLIDES
Model EDU-36729
12 Slides with 36 Assorted Specimens
• Acrylic
• Aspirin
• Bird Feather
• Coffee
• Cola
• Corn
• Cotton
• EVA Foam
• Fish Scale
• French Bean
• Gills Mushroom
• Glucose
• Grasshopper Abdomen
• Grasshopper Leg
• And More!

Item #: EDU-36729
UPC: 769188367298
Case Pack: 12/24 Box
**Microscopes & Telescopes**

### 12 PC. PREPARED MICRO-SLIDES + 6 BLANK SLIDES
Model EDU-36730

- 12 Slides with 36 assorted specimens (drinks, plastic, synthetic fibers, grasshopper, medicine & starch, micro-film, natural fibers, animal, algae, vitamin & fungi)
- 6 Blank slides

**Item #: EDU-36730**
**UPC: 769188367304**
**Case Pack: 48 Box**

### 100X 200X 300X MICROSCOPE SET
Model EDU-41003

- 6” Microscope
- Prepared slide
- 3 Blank slides
- 3 Statical covers
- 3 Blank labels
- 3x / 6x Magnifier
- Instruction manual
- No batteries required

**Item #: EDU-41003**
**UPC: 769188410031**
**Case Pack: 12 Box**

### 100X 300X 600X MICROSCOPE SET WITH LIGHT & PROJECTOR
Model EDU-41004

- 8” Microscope
- 2 Prepared slides
- 6 Blank labels
- 2 Collecting vials
- 3x / 6x Magnifier
- Instruction manual
- L14 lithium battery included

**Item #: EDU-41004**
**UPC: 769188410048**
**Case Pack: 12 Box**
100X 300X 1000X 2-WAY MICROSCOPE
Model EDU-41009
- 12" 2-way die-cast microscope w/ viewer and projector
- Micro Hatchery®
- 6 Prepared slides
- 12 Blank glass slides
- 12 Cover glasses
- 12 Blank labels
- Petri dish with Magnifier®
- 4 Collecting vials
- 2 10ml Graduated cylinders
- L14 lithium battery included

Item #: EDU-41009
UPC: 769188410093
Case Pack: 4 Box

100X-750X ZOOM MICROSCOPE SET WITH LIGHT & PROJECTOR
Model EDU-41001
- 9" Microscope with Huygens’ eyepiece and color filters
- Micro Data Bank®
- Micro Slicer®
- 12 Blank slides
- 12 Blank labels
- Petri dish with Magnifier®
- 4 Collecting vials
- Stirring rod
- Spare bulb
- L14 lithium battery included
- Instruction manual

Item #: EDU-41001
UPC: 769188410017
Case Pack: 12 Box

100X 900X ZOOM MICROSCOPE SET IN HAND CARRYING CASE
Model EDU-41011
- 9" Die-cast Microscope w/ Huygens’ eyepiece and color filters
- Micro Data Bank®
- 12 Blank slides
- 12 Cover glasses
- 12 Blank labels
- Petri dish with Magnifier®
- 2 10 ml Graduated cylinders
- 4 Collecting vials
- Instruction manual
- L14 lithium battery included

Item #: EDU-41011
UPC: 769188410116
Case Pack: 6 Box
**Microscopes & Telescopes**

**100X-900X ZOOM DIE-CAST MICROSCOPE SET WITH LIGHT & PROJECTOR**
Model EDU-41002
- 9” Microscope w/ Huygens’ eyepiece and color filters
- Micro Data Bank®
- Micro Slicer®
- 12 Blank slides
- 12 Cover glasses
- 12 Blank labels
- Petri dish with Magnifier®
- 2 10 ml Graduated cylinders
- 2 Collecting vials
- Spare bulb
- Instruction manual

Item #: EDU-41002
UPC: 769188410024
Case Pack: 4 Box

**640X OPTICAL MICROSCOPE W/ DUAL LIGHTS**
Model EDU-MS083
- 11” Die-Cast Microscope with Colour Filters
- 10x Wild-Field Eyepiece
- 16x Wild-Field Eyepiece
- Micro Slicer® and Mirco Hatchery®
- 2 Prepared Slides and 12 Blank Slides
- 12 Cover Glasses
- L14 lithium battery included
- And More!

Item #: EDU-MS083
UPC: 769188010835
Case Pack: 6 Box

**5-IN-1 100X-1200X DELUXE MICROSCOPE**
Model EDU-23703
- 11” Die-cast microscope with micro viewer
- Microphoto projector and drawing device
- Micro Hatchery®
- 2 Prepared slides
- 10 Blank glass slides
- 12 Cover glasses
- 12 Blank labels
- 4 Collecting containers
- Petri dish w/ Magnifier®
- Spare bulb
- 3 10 ml Graduated cylinders
- 3x / 6x Magnifier
- Instruction manual

Item #: EDU-23703
UPC: 769188237034
Case Pack: 6 Box
Microscopes & Telescopes

ASTRONOMICAL TELESCOPE & MICROSCOPE SCIENCE KIT
Model EDU-TM236

600x Microscope:
- 8” (20cm) Microscope
- 10 Blank slides
- 2 Prepared slides
- 12 Cover glasses
- 12 Blank labels
- 12 Statical slide covers
- 3x/6x Magnifier
- 2 Collecting vials
- 4 Collecting containers
- Stirring rod
- 2 Graduated cylinders
- Tweezers
- Dropper
- Micro Hatchery®
- Button Cell
- Pair of goggles
- Instruction Manual
- 1 CR2032 battery included

40x Telescope:
- 16” (41cm) Body
- 20x 30x 40x Eyepiece
- Diagonal mirror
- 30mm Ø objective lens
- 10” (25cm) tripod

Item #: EDU-TM236
UPC: 769188032363
Case Pack: 6 Box

Ages 8 & Up

MICROSCOPE & TELESCOPE SET WITH SURVIVAL KIT
Model EDU-TM008

1200x Die-cast Microscope:
- 9” (23cm) Huygens’ Eyepiece microscope with color filters
- Micro Hatchery®
- 10 Blank slides
- 24 Cover glasses
- 24 Blank labels
- 24 Statical slide covers
- 2 Prepared slides
- Petri dish with magnifier
- 2 Collecting vials
- Needle
- Scalpel
- Spatula
- 2-in-1 45mm Ø Magnifier
- Carrying case included
  (28.3” x 15.9” x 6.7”)
- L14 lithium battery included

40x Telescope:
- 16” (41cm) Body
- 20x 30x 40x Eyepiece
- Diagonal mirror
- 30mm Ø objective lens
- 10” (25cm) tripod
- Foldable 5-in-1 design
- 3x Binoculars
- Compass
- Whistle
- Emergency signal
- Mirror

Item #: EDU-TM008
UPC: 769188372278
Case Pack: 4 Box

Ages 8 & Up
288X ASTROLOM TELESCOPE WITH ALUMINUM TRIPOD
Model EDU-36944
- 6 x 25mm Finderscope
- 2.3x Barlow lens
- 50mm Objective lens
- Diagonal viewer and two (2) interchangeable eyepieces
- Space map
- 36” Adjustable aluminum tripod
- Includes carrying case

Item #: EDU-36944
UPC: 769188369445
Case Pack: 2 Box

Ages 8 & Up

35X-50X 50MM ZOOM TERRESTRIAL TELESCOPE
Model EDU-36685
- Huygens’ zoom eyepiece
- 50mm Objective lens
- 18” Aluminum tripod
- 25” Aluminum telescope body

Item #: EDU-36685
UPC: 769188366857
Case Pack: 6 Box

Ages 8 & Up

20X 30X 40X MOBILE TELESCOPE WITH TRIPOD
Model EDU-41005
- 20x/30x/40x Eyepieces
- Diagonal mirror
- 16” ABS body
- 30mm Objective lens
- 10” Tripod

Item #: EDU-41005
UPC: 769188410055
Case Pack: 12 Box

Ages 8 & Up
Globes

11” DUAL-CARTOGRAPHY LED ILLUMINATED GLOBE
Model EDU-2837
• Dual-cartography design - This globe displays the geographical features of the world when the light is off, but when the light is on, it displays the political map of the world.
• Globe in 2-piece construction with a sturdy base.

Item #: EDU-2837
UPC: 769188376399
Case Pack: 4 Box
Ages 8 & Up

11” DESKTOP POLITICAL GLOBE
Model EDU-36899
• Globe in 2-piece construction with a sturdy base.
• Updated geographical maps.
• Location of major cities for each country.
• Educational & fun for all ages!

Item #: EDU-36899
UPC: 769188368998
Case Pack: 6 Box
Ages 10 & Up

5” DESKTOP POLITICAL GLOBE
Model EDU-36920
• Globe in 2-piece construction with a sturdy base.
• Updated geographical maps.
• Location of major cities for each country.
• Educational & fun for all ages!

Item #: EDU-36920
UPC: 769188369209
Case Pack: 12 Box
Ages 8 & Up

WILDLIFE GLOBE
Model EDU-37149
• When the globe illuminates in the dark, more creatures appear in the oceans.
• Shows regions where different animals live.
• More than 250 pictures and each picture is accompanied with text for easy identification.

Item #: EDU-37149
UPC:769188371493
Case Pack: 4 Box
Ages 6 & Up
T-REX SKELETON
Model EDU-37329

Imagine bringing a dinosaur back to life! Now you can, with the 36-inch EDU-TOY Tyrannosaurus Rex Skeleton. Unravel the mysteries of this majestic creature as you assemble the bones of this massive creature that roamed the Earth 65 million years.

With the T-Rex model, you create your own scale replica of this eight-ton tyrannosaurus that was nicknamed the “Tyrant Lizard King” (and for good reason too!). After snapping all 51 pieces together, you can begin to imagine the enormity of this 20-foot tall creature whose body spanned a full forty feet!

- 36” overall length
- 51 pc. realistic fossil skeleton model of Tyrannosaurus Rex
- Display stand included
- Can be disassembled for later use

BRACHIOSAURUS SKELETON
Model EDU-37670

- 23-piece realistic fossil skeleton model
- Measures 13.5” tall by 19” long
- Display stand included

VELOCIRAPTOR SKELETON
Model EDU-37671

- 23-piece realistic fossil skeleton model
- Measures 10.25” tall by 25.5” long
- Display stand included
TUMBLING ROBOT
Model EDU-62019
- Build in less than 1 hour for hours of fun - No soldering required
- 3 Modes: Fall & get up mode - Dance mode - Somersault mode
- Functionally able to stand up after falling, really
- High-impact plastic construction

SOUND CONTROL UFO
Model EDU-62022
- Build the UFO Robot
- UFO races, stops, and turns around
- Alien pops up, spins, and disappears again
- Controlled by sound-sensitive remote
- Fun to put together and then to watch in action

STRANDBEEST
Model EDU-62221
Minibeest is a miniature size reproduction of the mega artificial life Strandbeest by Dutch artist Theo Jansen. The 28-page science guide gives you the history of the real Strandbeest. The guide also includes easy-to-follow assembly instructions. 6” (H) x 7” (L) x 5” (D)

RHINOCEROS KIT
Model EDU-62222
Build a Mini Rhinoceros powered by the wind with this kit. Watch your creation begin to move, powered just by the wind alone. 24-page science guide gives you the history of the real Giant Beest. The guide also includes easy-to-follow assembly instructions. 6” (H) x 7” (L) x 5” (D)
Leonardo Da Vinci Kits

**AERIAL SCREW**
Model EDU-61002

The Aerial Screw designed by Leonardo da Vinci was a precursor of the modern day helicopter. The device was designed to compress air in order to obtain flight. Measuring more than 15 feet in diameter and made from reed, linen, and wire, the machine called for a four-man team to stand on a base and employ a pumping action to spin the rotary blade in order to lift the device off the ground.

- Item #: EDU-61002
- UPC: 769188410093
- Case Pack: 8 Box

**PADDLEBOAT**
Model EDU-61007

In Leonardo da Vinci’s time, nautical expedition was the most expedient method of communicating with the world. Da Vinci brought forth plans for a boat with large wheel-shaped paddles that would propel it through water. The boat was relatively fast and easy to navigate using footpedals to turn rotating paddles that would move the boat.

- Item #: EDU-61007
- UPC: 769188610073
- Case Pack: 8 Box

**SELF-PROPELLED CART**
Model EDU-61008

Leonardo da Vinci designed the first self-propelled cart capable of moving without being pushed or pulled manually. This precursor to the automobile was one of the many inventions that Da Vinci created dealing with locomotion and transportation.

- Item #: EDU-61008
- UPC: 769188610080
- Case Pack: 8 Box
Leonardo da Vinci improved upon the already-established catapult design when he introduced his own version to the age-old military launching device. The plans for the new catapult employed a hand-crank that caused tension on the throw arm before releasing a projectile. His unique spring design produces a large amount of energy in order to propel stone projectiles or incendiary materials over great distances.

**CATAPULT**

Model EDU-61009

It is extremely difficult to create a mechanical replica of the natural movement of an animal. The beating of the dragonfly’s four wings is particularly complex and Da Vinci was well aware of how difficult it would be to create this machine; he himself described it in great detail. It is not simply wings beating up and down; it’s a jointed motion. Whilst beating down, the wings are “flat” in order to push as much air as possible, whereas when they are raised, they are angled so they create less resistance.

**MECHANICAL BUTTERFLY**

Model EDU-61018

A boat with sails has a part that is submerged in the water and invisible to enemies. The pilot used a passage to get into the lower part undercover: the Mechanical Submarine. A pulley and rope system lowers the submarine, which can unhook itself underwater and proceed invisibly towards the enemy. The submarine has two air chambers, which can be used for steering and for air needed by the pilot, who has a mouthpiece.

**SUBMARINE**

Model EDU-61020
Leonardo da Vinci's idea was to build a very powerful machine, which could throw eight large projectiles at the same time. He positioned eight long arms in a circle around a central pin, each of which had a sling capable of throwing a projectile attached to it.

Leonardo da Vinci studied this subject closely, identified the weak points and invented his own version with many more functions. He concentrated on the structure of the vessel, which needed to be reinforced to keep the cannon firmly in the middle.

A wooden shield protects the prow of the ship and the cannon. Leonardo da Vinci studied this subject closely, identified the weak points and invented his own version with many more functions. He concentrated on the structure of the vessel, which needed to be reinforced to keep the cannon firmly in the middle.
Photon Solar Racer Kit
Model AK-590
Learn all about solar energy and how to convert it to useful applications. You will build this exciting sleek solar car that runs on a high efficiency solar cell. Have your friends build one too and have fun racing them. No soldering required. The solar car comes in clear plastic. The car can be painted any color scheme that you desire (paint is not supplied). Photo is painted to illustrate how your car could look. The car can also run on two (2) "AA" batteries.

- Item #: AK-590
- UPC: 021419565614
- Case Pack: 12 Box

Solar Deluxe Educational Kit
Model SK-40
Children can do a series of do-it-yourself experiments to acquire the basic knowledge of solar energy with this kit. Learn how to make an electrical circuit and a solar circuit, how to increase voltage and current, and how to use solar power to produce energy for a radio, calculator, battery charger, a cassette player and more!

- Item #: SK-40
- UPC: 756619002668
- Case Pack: 20 Box

6-in-1 Solar Kit
Model EDU-38006

- Construct six different motor driven solar models
- Complete easy to read instruction manual
- Explore how solar power works
- Hours of fun constructing models

- Item #: EDU-38006
- UPC: 756619007939
- Case Pack: 12 Box
**KIKO.893**  
**Model OWI-893**

KIKO.893 is an exploring robot that has spent life traveling the galaxies and exploring uninhabitable regions. A life full of adventures and exploration was fun, but it was lonely work. KIKO.893 set its infrared sensor to search for life in the universe, and in doing so, discovered Earth. Now that KIKO.893 has finally found life, it loyally follows any object that approaches it, and won’t stop until switched back into explore mode.

KIKO.893 has two pre-programmed modes (follow and explore) and scans its surroundings by using AI (artificial intelligence), I/R (infrared sensor), and six legs which allow it to turn 360 degrees and seamlessly complete obstacles.

**DODECA 12 IN 1: SOLARHYDRAULIC ROBOT**  
**Model OWI-MSK618**

Introducing a Mini Solar Kit that utilizes not 1 but 2 forms of alternative energy. Dodeca 12 in 1 SolarHydraulic Robot, will teach your child how to engineer a robot that uses solar and hydraulic power in harmony, while challenging manual dexterity, and developing self-confidence.

Dodeca 12 in 1 SolarHydraulic Robot’s gear box is powered by direct sunlight, and a hydraulic transmission. With Dodeca, children can learn two forms of alternative energy while they create and use their infinite imagination. With alternative energy playing such a pivotal role, there is no better time to start children on the path to learning basic concepts behind these technologies.

Dodeca has 12 exciting forms that can be separated into two animated building modes: Automotive (Buggy, Obstacle Avoiding Rover, Excavator, Forklift) and Animals (Elephant, Pterosaurs, Monkey, Ostrich, T-Rex, Crocodile, Scorpion, Dog-Walker)
AIR POWER RACER KIT
Model OWI-631
This car is fast and furious fun that requires no batteries or specific weather conditions to limit its usage. A pump-up bar with a pressure meter is built into the car for easy operation. The air chamber is made from PET (polyethylene terephthalate), The silicon tube creates an air tight fit. A safety valve has been implemented into the kit as another safety device. When the compressed air is released it drives the vehicle a distance up to 50 meters in 35 seconds. OWI’s Air Power Racer is not only designed with the environment in mind, but is also fun and easy to build!

UPC: 092087696313
Case Pack: 15 Box

MAGNETIC LEVITATION TRAIN
Model OWI-633
Electromagnet, propulsion magnets and levitation magnets are used to create propulsion. This Scientifically placed magnetic strips are built in the side guideway to allow the Magnetic Levitation Express is the best choice for children to experiment how Maglev trains are built and work. Fast, pollution-free and quiet, Magnetic Levitation Express is tomorrow’s technology in use today.

UPC: 092087686338
Case Pack: 10 Box

DETECTIVE BUG-SEE
Model OWI-MSK683
Full of investigative curiosity, OWI’s Detective BugSee will march its way seeking valuable clues when activated by the power of the sun. With direct sunlight, this little fella will keep strutting and strutting with more vigor than you could imagine. Pick up more than one and you will have an army of private EYES inching you closer to solving the mysterious quandary of environmental sustainability.

UPC: 092087696832
Case Pack: 48 Box
Case Pack: 32 Box

WILD BOAR
Model OWI-MSK682
In rural settings, people are urged not to leave rubbish to easy access of wild boars, but OWI’s Solar Wild Boar is a fun-loving solar kit that smiles as it klippy-klocks around any mess. The Solar Wild Boar’s appetite comes to life on sunny days making it the perfect outdoor companion.

Item #: OWI-MSK682
UPC: 092087696825
Case Pack: 48 Box

CAPTAIN ROAM-E-O
Model OWI-MSK684
Navigating planet Earth on tow legs or less is a humanistic challenge. After failing to find love on Mars, OWI’s CAPTAIN ROAM-E-O has landed on our native soil to show us its roving glory. CAPTAIN ROAM-E-O has a fantastic planetary gear transmission system and adjustable robotic arms to add more layers of fun. Harnessing the power of the sun, CAPTAIN ROAM-E-O is ready to take on your next journey.

Item #: OWI-MSK684
UPC: 092087696849
Case Pack: 32 Box

6-IN-1 EDUCATIONAL SOLAR KIT
Model OWI-MSK610
Mini Solar building kits teach children the benefits of solar energy while creating a toy that is both fun to play and requires no batteries. Newest member of this popular line is the 6-in-1 Educational Solar Kit, an excellent beginner building kit designed to teach how solar power is used to drive a small motor. Children use the 21 snap-together parts (no tools required) to build six different working models including an airboat, windmill, puppy, and two different planes.

Item #: OWI-MSK610
UPC: 092087676100
Case Pack: 32 Box
14-IN-1 SOLAR KIT
Model OWI-MSK615

The solar powered robot can be transformed into 14 different robot modes which include a multitude of comical and functional movements. The user can easily change from a wagging-tail dog -> running beetle -> walking crab -> surfer -> speedster -> zombie chaser.

Item #: OWI-MSK615
UPC: 092087676155
Case Pack: 18 Box

7-IN-1 SOLAR RECHARGEABLE SOLAR TRANSFORMERS
Model OWI-MSK640

The 7-in-1 comes with all snap plastic parts (no screws or tools required), solar panel, and accessories. It is easy to assemble the seven different modules: two power charging stations and five different vehicles.

The transforming rechargeable station has two output plugs – one for solar recharging and the other for battery recharging.

Item #: OWI-MSK640
UPC: 092087676405
Case Pack: 32 Box

SOLAR SPACE FLEET
Model OWI-MSK641

The Solar Space Fleet Kit is an innovative solar powered science kit that can transform into seven different lunar modules and energized via direct sunlight or micro rechargeable battery. The kit can be powered by either a solar panel or a micro rechargeable battery (both are included in the kit). The micro rechargeable battery can be charged in two ways. One is charged by direct sunlight, and the other is charged by alkaline batteries.

Item #: OWI-MSK641
UPC: 092087676412
Case Pack: 32 Box
T4 TRANSFORMING SOLAR ROBOT
Model OWI-MSK617
This kit gives your child the option to easily transform between one of four different modes: Robot – walking legs as well as moving wheels, Insecta – 6 walking legs as well as moving jaws, T-Rex – 2 walking legs and moving jaws, and Drill Vehicle – similar to a miner’s driller/drilling bit and moving wheels.

SUPER SOLAR RECYCLER
Model OWI-MSK616
The Super Solar Recycler Kit is powered completely by natural light so you never have to worry about batteries! Your children can recycle a can of their favorite soft drink to create Street Roller and Walking Robot, create Bottle Yacht, Drummer Robot and Flying Bird using a plastic water bottle, and even turn your old scratched CD’s into the super cool CD Racer.

WALKING KING CRAB
Model OWI-MSK669
Methodically, eight legs work in harmony to create a ballet style tippy-toe movement. Similar to its cousin from Alaska, the sun’s rays will make it scurry along to safe passage. Walking King Crab is powered with a mini solar cell (included) and demonstrates alternative energy principles. No batteries required and less than thirty-five parts to assemble with a small screwdriver.
**THE SOLAR SYSTEM**  
Model OWIMSK679

Plants orbit around the solar-paneled “sun” that drives a motor so the planets actually move. The kit comes with 6 colors of opaque acrylic paint, plus brush—which makes for the perfect exercise in science and creativity.

- Solar Panel Output: 75mA
- Assembled Size: 9 7/8” (diameter) x 3 5/8”(H)

**ROOKIE SOLAR RACER V2**  
Model OWI-MSK681

Let’s work together to be a part of the larger conversation of energy efficiency and celebrate environmental friendliness and substitutability. Empower your children with the knowledge to make our world a better place to live. With that concept. OWI® has fabricated a simple mini solar kit to engage curiosity and awareness.

**FRIGHTENED GRASSHOPPER**  
Model OWI-MSK670

Eyes jiggle, legs wiggle, and antennas sway to-and-fro. This frolicking fancy is easy to assemble and demonstrates an alternative energy principle. No batteries or tools required and less than ten parts to snap together.
HAPPY HOPPING FROG
Model OWI-MSK672
Almost comical, this little green amphibian friend leaps with a joyful sense of freedom. The tailless, leaping mini solar kit is activated by the power of the sun’s rays; no batteries required.

Super Solar Race Car
Model OWI-MSK671
ZOOOOOMM! Super Solar Racing Car has surprising speed. One source of such power is derived from the sun’s powerful rays of light. No batteries and tools required and less than a dozen parts to assemble.

GREEN LIFE
Model OWI-MSK690
Kids can build an eco-friendly and Green Life future. They can see the benefits of putting solar energy to work and discover how solar cells generate electricity from light. The kit consists of a powerful solar cell, rechargeable battery (included), house, and car.

PENGUIN LIFE
Model OWI-MSK691
Kids can build an eco-friendly penguin habitat. They can see the benefits of putting solar energy to work and discover how solar cells generate electricity from light. The kit consists of a powerful solar cell, rechargeable battery (included), igloo and penguin.
SALT WATER FUEL CELL MOTORCYCLE
Model OWI-753
Environmentally safe, non-toxic and clean. The Salt Water Fuel Cell Motorcycle is the first motorcycle to be powered by saltwater. The Salt Water Fuel Cell Motorcycle gives children a chance to learn about new forms of clean energy, while building and powering their very own toy: Just add saltwater and go.

Item #: OWI-753
UPC: 092087697532
Case Pack: 32 Box

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SALT WATER FUEL CELL MONSTER TRUCK
Model OWI-752
The Salt Water Fuel Cell Monster Truck Kit is fueled by salt water and is equipped with four-wheel drive mechanical construction. Each monster wheel can change its angle individually and the truck can change its height and shape. Forward and reverse...no problem; simply switch the “positive and negative” connectors.

Item #: OWI-752
UPC: 092087697525
Case Pack: 32 Box

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SALT WATER FUEL CELL CAR
Model OWI-750
Environmentally safe, non-toxic and clean. The Salt Water Fuel Cell Car is the first car to be powered by saltwater. The Salt Water Fuel Cell Car gives children a chance to learn about new forms of clean energy, while building and powering their very own toy: Just add saltwater and go!

Item #: OWI-750
UPC: 092087697501
Case Pack: 48 Box

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SALT WATER FUEL CELL BAJA RUNNER
Model OWI-754
After activating the magnesium fuel cell module with a saltwater mixture, the chemical reaction generates electricity using salt water as an electrolyte to power the on-board motor. The magnesium metal sheet can operate the Salt Water Fuel Cell Baja Runner for about 5-7 hours continuously.

Item #: OWI-754
UPC: 092087697549
Case Pack: 48 Box

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OWI® Kits
HYDRAULIC ARM EDGE
Model OWI-632

With Hydraulic Arm Edge, command six axes of varied movements: the gripper to open and close up to 1.89 inches, wrist rotation of 180 degrees, wrist mobility of 98 degrees, elbow range of 44 degrees, base rotation of 270 degrees and shoulder motion of 45 degrees. With a vertical reach of 16.35 inches, horizontal reach of 12.42 inches, and lifting capacity of 50g, your robotic friend is ready for your genius to erupt. With the removal of your gripper, you can activate the suction apparatus. This feature enables the users to elevate objects with a larger surface area.

Item #: OWI-632
UPC: 092087696320
Case Pack: 8 Box

ROBOTIC ARM EDGE
Model OWI-535

Command the gripper to open and close, wrist motion of 1200, an extensive elbow range of 3000, base rotation of 2700, base motion of 1800, vertical reach of 15 inches, horizontal reach of 12.6 inches, and lifting capacity of 100g. Some of the added features include a search light design on the gripper and a safety gear audible indicator is included on all five gear boxes to prevent any potential injury or gear breakage during operation. Requires four (4) “D” batteries. Dimensions: 9” (H) x 6.3” (W) x 15” (L)

Item #: OWI-535
UPC: 092087695354
Case Pack: 8 Box

USB INTERFACE CABLE & SOFTWARE
Model OWI-535USB

Have real time manual control of the robotic arm and program the arm to perform a sequence of movements.

Features:
• HARDWARE and SYSTEM REQUIREMENTS
• OS: Windows XP Service Pack 1;2;3/Vista
• CPU: Pentium3; 1.0GHz or higher
• Memory: 256MB or higher
• Hardware Disk Space: 100MB or more
• Display: Super VGA (800 x 600 or higher)

Item #: OWI-535USB
UPC: 092087535872
Case Pack: 42 Box
EM4 ROBOT
Model OWI-891
A boost in confidence—the EM4 Educational Motorized Robot Kit is your 3-speed vehicle to positively impact a young builder by using OWI’s robotics theory. OWI® has designed this kit for the lovers of simplicity.

Item #: OWI-891
UPC: 092087698911
Case Pack: 20 Box

3-IN-1 ALL TERRAIN ROBOT
Model OWI-536
• Put it together, take it apart, make another module
• No soldering required
• Utilize different track modules and make your robot transform into 3 amazing variations
• It’s all about flexibility, and intelligent thinking

Item #: OWI-536
UPC: 092087695361
Case Pack: 8 Box

KINGII DRAGON ROBOT KIT
Model OWI-892
If the infrared sensor is activated in the “escape” mode the robot will automatically scurry away until it escapes to a safe distance. If the infrared sensor is switched to the “follow-me” mode then the robot will assess danger by bluffing the attacker. When the robot does not sense danger it will follow you like a pet lizard.

Item #: OWI-892
UPC: 092087698928
Case Pack: 14 Box

OWI® RHINO BEETLE
Model OWI-353
• Build an amusing aluminum Rhino Beetle
• Easy to understand kid friendly step-by-step instructions
• Rhino Beetle’s legs, wings, and horn are all movable
• Easily to assemble from metal and bendable aluminum parts

Item #: OWI-353
UPC: 092087693534
Case Pack: 70 Box
**OWI® Kits**

**OWI® SAMURAI SCORPION**
Model OWI-352
- Build an amusing aluminum Samurai Scorpion
- Easy to understand kid friendly step-by-step instructions
- Its claws, arms, legs, and tail are all movable
- Body consists of eight legs, tail and curved stinger

Item #: OWI-352
UPC: 092087693527
Case Pack: 70 Box

**OWI® T-REX**
Model OWI-371
- Build an entertaining, aluminum T-Rex
- Easy to understand kid friendly step-by-step instructions
- Excellent kit for aspiring paleontologists
- Easily to assemble from metal and bendable aluminum parts

Item #: OWI-371
UPC: 092087693718
Case Pack: 70 Box

**OWI® STEGOSAURUS**
Model OWI-372
- Build an entertaining, aluminum Stegosaurus
- Easy to understand kid friendly step-by-step instructions
- Excellent kit for aspiring paleontologists
- Easily to assemble from metal and bendable aluminum parts

Item #: OWI-372
UPC: 092087693725
Case Pack: 70 Box

**OWI® TRICERATOPS**
Model OWI-373
- Build an entertaining, aluminum Triceratops
- Easy to understand kid friendly step-by-step instructions
- Excellent kit for aspiring paleontologists
- Easily to assemble from metal and bendable aluminum parts

Item #: OWI-373
UPC: 092087693732
Case Pack: 70 Box
ROBOT BEETLE
Model 21-534N
The Beetle is an infrared remote control kit. Its microprocessor provides four different channels that allow up to four Beetles to operate at the same time. The Beetle moves using six wheels that can move forward, backward, right and left. This kit is ideal for learning about gear structure, motor principles & electronic circuits.

FOLLOW ME
Model 21-887
A very interesting sound detecting robot kit. The four built-in microphones detect the sound source and the robot turns and moves towards it. Just clap and the robot will come to you. Clap again from another position, and the robot will turn and move in that direction.

LINE TRACKING ROBOT
Model 21-890
The Line Tracking Robot will follow a black line drawn on white paper by using two photo interrupters. Create different routes with black electronic tape or a black marker and see what your Line Tracking Robot can do!

GEARBOX KIT

2-IN-1 GEARBOX
Model 21-130
We provide the motor, two sets of gears, metal shafts, gearbox, and other accessories in this kit. Use a different gear setting and you will have a different speed.
Scarab is a robot that makes use of two touch sensors to detect obstacles. When its antenna (touch sensor) detects an object in its path, Scarab will go backward first and automatically follow a two-step maneuver to help it overcome the obstacle. The Scarab robot can be configured with different sets of movements.

**Item #: 21-884**

**UPC: 756619007281**

**Case Pack: 24 Box**

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**Ladybug Robot Kit**

**Model 21-885**

Ladybug Robot moves with its six legs and makes use of infrared emitting diodes as its “eyes” to avoid obstacles along its path. Ladybug automatically makes a left turn the moment it detects an object in its path. It continues to move forward after that if there is no shadow in front of the sensor.

**Item #: 21-885**

**UPC: 756619007298**

**Case Pack: 24 Box**

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**Titan Tank Kit #2**

**Model 21-531N2**

The Titan Tank is an infrared remote control kit. Its microprocessor provides four different channels that allow up to four Titans to fight each other at the same time. Makes a sound when shooting and when it is hit. The Titan moves using six wheels that can move forward, backward, right and left. **Set of two.**

**Item #: 21-531N2**

**UPC: 756619005737**

**Case Pack: 8 Box**

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**Titan Tank Kit**

**Model 21-531N**

The Titan Tank is an infrared remote control kit. Its microprocessor provides four different channels that allow up to four Titans to fight each other at the same time. Makes a sound when shooting and when it is hit. The Titan moves using six wheels that can move forward, backward, right and left.

**Item #: 21-531N**

**UPC: 756619005720**

**Case Pack: 18 Box**
ESCAPE ROBOT KIT
Model 21-886
It never fails to find its way out of a maze. The Escape Robot makes use of three infrared emitting diodes and one infrared receiving module to send and receive signals and detect obstacles. Escape Robot has a built-in microprocessor which enables it to “think” on its own, as it processes information about its environment and maneuvers itself around obstacles.

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Case Pack: 24 Box</td>
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</tbody>
</table>

LINE TRACKING MOUSE KIT
Model 21-880
A robot mouse tracks a black line using a photo interrupter for its eyes
- Sound activated
- Programmed IC
- Uses three photo interrupters to detect a black line.
- Two sets of gear motors (unassembled)

<table>
<thead>
<tr>
<th>Item #: 21-880</th>
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<tbody>
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<td>Case Pack: 24 Box</td>
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</tbody>
</table>

SOUND REVERSING CAR KIT
Model 21-881
A robot car with a sensor to detect noise (like a clap) or physical contact for its reaction. It moves forward when it detects noise and reverses when it touches obstacles.
- Uses a microphone as a sound sensor.

<table>
<thead>
<tr>
<th>Item #: 21-881</th>
<th>UPC: 756619002309</th>
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<tbody>
<tr>
<td>Case Pack: 42 Box</td>
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</tbody>
</table>

TURNING FROG KIT
Model 21-882
This is an interesting robot kit. When it detects sounds, it will move and repeat the following steps sequentially: Start (move forward), Stop, Left Turn, Stop, Right Turn, Stop.
- Two sets of gear motors (unassembled).

<table>
<thead>
<tr>
<th>Item #: 21-882</th>
<th>UPC: 756619002323</th>
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<td>Case Pack: 42 Box</td>
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</tbody>
</table>
Radio Kits

ELECTRONIC AM RADIO KIT
Model MX-901A
• Learn and build your own AM Radio Kit - it’s easy, it’s fun and it’s safe!
• Tune in your favorite AM radio stations - receives 520 - 1650kHz band.
• Easy-to-read illustrated operating manual included.
• Safe, solderless, exciting, educational, and fun.

Item #: MX-901A
UPC: 756619001906
Case Pack: 48 Box

ELECTRONIC CRYSTAL RADIO KIT
Model MX-901C
• Learn how radios work
• Safe, solderless, educational, and fun!
• Easy-to-read instructions included.
• Crystal diode converts RF to audio
• Tune in your favorite AM stations!
• Includes earphone

Item #: MX-901C
UPC: 756619002002
Case Pack: 24 Box

ELECTRONIC AM/FM RADIO KIT
Model MX-901AF
• Learn and build your own AM/FM Radio Kit - it’s easy, it’s fun and it’s safe!
• Tune in your favorite AM/FM radio stations - receives 520 - 1650kHz band and 88 - 108MHz band.
• Easy-to-read illustrated operating manual included.
• Safe, solderless, exciting, educational, and fun.

Item #: MX-901AF
UPC: 756619001913
Case Pack: 24 Box
ELECTRONIC FM RADIO KIT  
Model MX-901F

This FM Radio is an excellent kit to help you begin your study of electronics. It’s so simple; you’ll spend only a couple of hours putting it together. No soldering is required and you can make circuit changes very easily.

• Learn and build your own FM Radio Kit - it’s easy, it’s fun, and it’s safe!
• Tune in your favorite FM radio stations - receives 88 - 108MHz band.
• Easy-to-read illustrated operating manual included.
• Safe, solderless, exciting, educational, and fun.

Item #: MX-901F  
UPC: 756619001920  
Case Pack: 24 Box

ELECTRONIC SHORT WAVE RADIO KIT  
Model MX-901SW

The MX-901S AM-SW Radio Kit uses one transistor, 4 resistors and 5 capacitors including a variable capacitor. It has high sensitivity and covers a frequency range form 6MHz to 8MHz for SW and from 12MHz to 18MHz for SW2.

• Learn and build your own Short Wave Radio Kit - it’s easy, it’s fun, and it’s safe!
• Explore the fascinating world of short wave radio!
• Receives band from 6 - 8MHz (SW1) and 12 - 18MHz (SW2).
• Easy-to-read illustrated operating manual included.
• Safe, solderless, exciting, educational and fun.

Item #: MX-901SW  
UPC: 756619001937  
Case Pack: 24 Box
LED MAGNIFYING LAMP WITH THIRD HAND
Model ZD-10Y

This multi-purpose tool offers an excellent all around solution, ideal for working on small PC boards, components, soldering, etc. The magnifying lamp with integrated third hand is intended for illuminating work areas and it is equipped with a magnifying glass. This device also comes with soldering iron stand, alligator clips, soldering wire spool holder, sponge, rosin, as well as cleaning ball, to help with soldering. It can be powered either by four (4) “AA” batteries (not included) or an external power adapter.

- Magnifying glass lens size: 3.5”Ø (90mm)
- Magnification: 3x
- LED illumination: 16 LEDs
- Neck length (for magnifying glass): 10.4” (250mm)
- Sponge size: 1.2” x 2.0” (30 x 50m)
- Rosin: 10g
- Base size: 7.5” x 6.7” (190 x 170mm)

TWO IC FM RADIO KIT W/ TOOLS
Model WMSK200

The WMSK200 includes a 25W soldering iron with stand, side cutters, safety spectacles, and an FM-88K Two IC (integrated circuit) Radio soldering kit. This kit includes everything you need to build a functional FM radio receiver.

- FM-88K Two IC FM Radio Soldering Kit
- 25W Soldering Iron with Stand
- Wire Cutters
- Safety Glasses
- Lead Free Solder (5’ at 0.031 inch Rosin Core)
FLASHING EUROPEAN SIREN KIT
Model AK-100

This kit is a must for the beginner. After practicing your soldering techniques on the special area of the board, you’d be ready to assemble this European siren with flashing LEDs. This kit also includes a soldering iron and wire cutters.

- Become an expert in soldering
- No previous soldering knowledge required
- Complete with all components
- Includes soldering iron
- Includes wire cutters
- Lesson manual and self-test included.

SOUND REVERSING CAR KIT
Model WMSK300

D.I.Y. That’s right do-it-yourself! Build this kit to assemble a robot car with a sensor to detect noise (like a clap) or physical contact for its reaction. It moves forward when it detects noise and reverses when it touches obstacles. Uses a microphone as a sound sensor. Fun introduction into the exciting world of electronics and robotics.

25W soldering iron with stand - Wire cutters - safely glasses - lead free solder (99.3% tin, 0.7% copper. 5ft @ 0.031” diameter)
Comes complete with detailed easy to follow instructions
Quality construction - some soldering required
Ideal for use in labs, service shops, schools (STEM - STEAM), home and industry.
**ADJUSTABLE CIRCUIT BOARD HOLDER**  
Model ZD11E  
- Adjustable project clamp rotates 360 degrees and can be secured in position, make your projects and soldering easier  
- Clamp mouth opens to nearly 8 inch’s (198 mm)  
- Rigid steel structure with stabilizing rubber feet

**HELPING HAND W/ MAGNIFYING GLASS**  
Model HH-55  
For soldering or making fine adjustments. Adjustable arms can hold objects in any position.

**SAFETY GOGGLES**  
Model WMSG20  
- Contours to head  
- Soft vinyl frame  
- Ventilated  
- Safety approved

**SOLDERING IRON STAND**  
Model SH-1  
Heavy-duty holder with sponge.

**25W SOLDERING IRON**  
Model WMSI200  
- 25W Pencil soldering iron  
- Stand included  
- Conical replacement tip ZD-200CT included  
- Wedge replacement tip ZD-200CT2 (sold separately)

**SILVER SOLDER**  
Model WMSIL3  
Rosin core, 0.031” diameter 96% tin, 4% silver. Three meter length. 11 g.
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Model</th>
<th>UPC</th>
<th>Case Pack</th>
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<tbody>
<tr>
<td>LEAD-FREE SOLDER</td>
<td>3-pack. Rosin core, 0.031” diameter 99.3% tin, 0.7% copper. 4.84 g. 5 foot length (each).</td>
<td>WMLF993</td>
<td>756619011547</td>
<td>12 Box</td>
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<tr>
<td>LEAD-FREE SOLDER</td>
<td>Rosin core, 0.031” dia. 99.3% tin, 0.7% copper.</td>
<td>WM1LB</td>
<td>756619011615</td>
<td>12 Box</td>
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<tr>
<td>DESOLDERING PUMP</td>
<td>Deluxe, high-vacuum pump. Anti-static tip.</td>
<td>WMSP4</td>
<td>756619011554</td>
<td>12 Box</td>
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<tr>
<td>SIDE CUTTERS</td>
<td>Drop forged, polished carbon steel, return spring, blue foam cushion grip. 4½” long.</td>
<td>WMSC1</td>
<td>756619011561</td>
<td>12 Box</td>
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<tr>
<td>LONG NOSE PLIERS</td>
<td>Drop forged, polished carbon steel, return spring, blue foam cushion grip. 5” long.</td>
<td>WMLNP2</td>
<td>756619011578</td>
<td>12 Box</td>
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<tr>
<td>3-W WIRE STRIPPER/C</td>
<td>7-in-1 all-purpose wire stripper, cutter, pliers, and crimper. Cushion grip. Strips AWG 16-26. 6” long.</td>
<td>WMS30</td>
<td>756619011592</td>
<td>12 Box</td>
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</table>
Soldering Kits

DELUXE HOW TO SOLDER KIT
Model SK-175
Learn how to solder properly using a variable temperature solder station providing a temperature range of 350°F to 900°F. It will provide the correct temperature for the broad range of electronic components that are present in today's electronic equipment.

- SL-75 Variable temperature station with conical tip
- SL-75T2 Extra wedge tip
- SP-1A Solder practice kit
- ST-1 Side cutting pliers
- SE-1 Solder ease kit

Item #: SK-175
UPC: 756619008127
Case Pack: 5 Box

HANDS-ON BASIC ELECTRONICS KIT
Model SKM-250
A basic hands-on kit that introduces you to good soldering techniques while working on state-of-the-art printed circuit board circuits. You will learn the basics of digital multimeters and circuit troubleshooting.

Some of the features of this kit are as follows: Identifying components, color-code reading exercises, resistors, capacitors, and inductors; includes color code calculator (Model CC-100); 163 solder points, standard soldering connections, close-tolerance soldering, and tack soldering; complete voltage and resistance analysis of circuit; desoldering exercise.

- SL-75 Variable temperature solder station with conical tip
- SL-75T2 Extra wedge tip
- M-1000E Digital multimeter
- SP-3B Solder practice kit
- ST-3 Adjustable wire stripper cutter
- SE-1 Solder ease kit

Item #: SKM-250
UPC: 756619008202
Case Pack: 5 Box

SURFACE MOUNT TECHNOLOGY SOLDERING PROGRAM WITH TOOLS
Model SK-300
Almost all new electronic products utilize SMT design and components. These parts are extremely small, different, and require proper tools and techniques to solder them onto the circuit board. This kit will give you that hands-on training.

- SL-75 48W Solder station with soldering iron
- SL-75T2 Extra wedge tip
- SM-200K Surface Mount Technology (SMT) training kit w/ detailed instruction manual
- HH-60 Deluxe helping hand
- SP-4 Desoldering pump
- ST-22 Safety spectacles
- ST-83 4pc. Non-conductive tweezer set
- ST-84 Universal tweezer
- ST-110 Hook and scraper

Item #: SK-300
UPC: 756619009520
Case Pack: 5 Box
LEARN TO SOLDER TOOL KIT
Model ST-12ETL
- ZD200C Standard (25W) Soldering Iron (ETL Approved)
- SP4 Desoldering Pump
- SW3 Desoldering Wick
- LF99 LEAD-FREE Solder (99.3% tin, 0.7% copper, 5ft, 0.031" diameter)
- Soldering Iron Stand
- Tip cleaning sponge
- Easy to read instructions included

Item #: ST-12ETL
UPC: 756619001319
Case Pack: 30 Box

TWO IC AM RADIO KIT
Model AM-780K
New Design - Easy-to-Build complete radio on a single PC board. Unique design allows you to place parts over its corresponding symbol on the PC board. Teaches the basic theory of AM radio operation. Detailed instructions and Illustrations make it an easy and educationally sound project.

Item #: AM-780K
UPC: 756619001616
Case Pack: 50 Box

TWO IC FM RADIO KIT
Model FM-88K
The ELENCO® FM-88K Kit is a monophonic, two-IC, FM (frequency modulation) receiver designed to receive FM signals in the frequency range (88-108MHz). It uses electronic auto-scan to search for FM stations. This scan system is done with two button switches - one switch scans up, the other resets to the start of the tuning position.

Item #: FM-88K
UPC: 756619008011
Case Pack: 24 Box

Ages 12 & Up
Component Kit

**BASIC ELECTRONIC PARTS KIT**
Model CK-1000

The Elenco® CK-1000 Basic Electronic Parts Kit includes a wide variety of basic electronic parts to satisfy almost any training project. Packaged in a handy plastic parts container with 18 compartments.

**OVER 200 PARTS**
- IC’s
- Transistors
- SCR
- Trim Pots - 5 values. 500-1MΩ
- Diodes
- LEDs red, green, white, yellow
- 7-segment display
- 5V Relay
- Photo Cell
- Push button switch
- 8-pole DIP switch
- Condenser microphone
- Side switches SPDT, DPDT
- 9V battery snap
- 8Ω speaker
- Buzzer piezoelectric
- Alligator clips black & red
- Miscellaneous Components

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**COMBO KIT**
Model RCK-465

This combo kit contains a resistor kit RK-365 with 5 each of 73 values for a total of 365 pieces and the capacitor kit CAPK100, which contains 21 varieties of capacitors for a total of 100 pieces. Altogether, this kit contains 465 pieces.

- **Box size:** 6” (L) x 3¼” (H) x 4” (D)
1/4W CARBON FILM RESISTOR KIT
Model RK-370
Contains five (5) each of 74 standard values, from 1Ω to 10MΩ - 1/4 watt, 5% tolerance, carbon film - 370 pieces total. Packaged in a cardboard organizer box.
- Box size: 6” (L) x 3¼” (H) x 2” (D)

Item #: RK-370
UPC: 756619009704
Case Pack: 48 Box

CAPACITOR KIT
Model CAPK100
Contains ceramic disc, mylar, and electrolytic-type capacitors. 21 varieties, 100 pieces total - 30 ceramic from 10pF to 470pF, 35 mylar from 0.001µF to 0.220µF, and 35 electrolytic from 1µF to 1000µF. Packaged in a cardboard organizer box.
- Box size: 6” (L) x 3¼” (H) x 2” (D)

Item #: CAPK100
UPC: 756619008424
Case Pack: 14/56 Box

1/2W CARBON FILM RESISTOR KIT
Model RK-365
Contains five (5) each of 73 standard values, from 1Ω to 1MΩ - 1/2 watt, 5% tolerance, carbon film - 365 pieces total. Packaged in a cardboard organizer box.
- Box size: 6” (L) x 3¼” (H) x 2” (D)

Item #: RK-365
UPC: 756619003542
Case Pack: 48 Box

DIODE KIT
Model DIOK80
Contains an assortment of silicon, zener, germanium, bridge, and switching diodes. 80 pieces total, 20 types. Packaged in a cardboard organizer box.
- Box size: 6” (L) x 3¼” (H) x 2” (D)

Item #: DIOK80
UPC: 756619009131
Case Pack: 48 Box
Component Kit

**LED ASSORTMENT KIT**
Model LEDK80
Contains a variety of types and colors: Small, standard, large, rectangular, bi-color, blinking, ultra bright, red, amber, green, blue, yellow, and white. 80 pieces total, 18 varieties. Packaged in a cardboard organizer box.
- **Box size:** 6” (L) x 3¼” (H) x 2” (D)

**Item #: LEDK80**
**UPC:** 756619008585
**Case Pack:** 48 Box

**TRANSISTOR KIT**
Model TRAK-100
Contains an assortment of transistors, NPN, PNP, FET’s, Darlington, and Power. 100 pieces total, 15 types. Packaged in a cardboard organizer box.
- **Box size:** 6” (L) x 3¼” (H) x 2” (D)

**Item #: TRAK-100**
**UPC:** 756619009735
**Case Pack:** 48 Box

**HOOK-UP WIRE KIT**
Model WK-103
Contains three (3) 25ft. spools of #22 gauge solid wire red, yellow, and black in dispenser box.
- **Box size:** 5½” (L) x 2 1/8” (H) x 2 1/8” (D)

**Item #: WK-103**
**UPC:** 756619009391
**Case Pack:** 75 Box

**HOOK-UP WIRE KIT**
Model WK-106
Contains six (6) 25 ft. spools of #22 gauge solid wire red, yellow, black, white, green, and blue in a dispenser box.
- **Box size:** 10½” (L) x 2 1/8” (H) x 2 1/8” (D)

**Item #: WK-106**
**UPC:** 756619009407
**Case Pack:** 25/50 Box
**QBOIDZ 4 IN 1 MULTIMODELS**
Model ENG-QB04

Build 4 different models! Let’s get adventurous with the Qboidz™ cars! Imagine yourself outside of the big city, using the Tractor for growing imaginary plants or riding the Quad vehicle on bumpy roads. You can also get into the Jeep and “drive” high up the mountains to feel the air breeze. If you like classic cars, you can always “drive” the curvy Beetle on the city roads.

- Models: Tractor, Spaceship and Stunt Plane

**SOLD AS ASSORTMENT**

- Item #: ENG-QB04
- UPC: 756619012018
- Case Pack: 6 Box

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**QBOIDZ 8 IN 1 MULTIMODELS**
Model ENG-QB08

Build 8 different models! Re-assemble into a See-Saw model and let the two figures play along, balancing each other. Build the multi-model Horse-pen with two horses a pen and a feeding stand. Then try the two-hump Camel or the Crazy Chicken with the fluffy wings! You can also build the Frog model with the wide mouth or the more mythical Gremlin creature with the short tail and pointy head! Then switch to mechanical builds with the exciting Robot model!

- Models: Alligator, Owl and Alien Robot

**SOLD AS ASSORTMENT**

- Item #: ENG-QB08
- UPC: 756619012025
- Case Pack: 6 Box

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**QBOIDZ 14 IN 1 MULTIMODELS**
Model ENG-QB14

Make handy vehicles like the Forklift or the Plower and use them for “industrial” work! “Fly” high up the sky with the Propeller Plane or “set sail” with the Yacht! Create a lovely Robot-Girl with strange-looking hair and a happy face! Finally, choose from a wide variety of animal models and construct: an Anteater with a long trunk, a funny Chimp, a defensive Crab or an attacking Scorpion, a tall Dinosaur or a Camel, a peaceful Sheep, a mighty Alligator or a Crazy Chicken with fluffy wings!

**SOLD AS ASSORTMENT**

- Item #: ENG-QB14
- UPC: 756619120324
- Case Pack: 6 Box
ANIMAL KINGDOM SETS
Model ENG-SH10
• Snap-fit connectivity in any direction and angle.
• Extraction tool for easy disassembly.
• All parts are non-toxic and made to last.
• The STEM Heroes series introduces children into the world of STEM disciplines (Science – Technology – Engineering and Mathematics) through a completely new and playful approach! Boys and girls can construct exciting models while learning interesting facts and doing experiments in each theme.
• Models: Mammoth, Scorpion and Alligator

SOLD AS ASSORTMENT
Item #: ENG-SH10
UPC: 756619012070
Case Pack: 18 Box

SPEEDSTERS SETS
Model ENG-SH30
• Snap-fit connectivity in any direction and angle.
• Extraction tool for easy disassembly.
• All parts are non-toxic and made to last.
• The STEM Heroes series introduces children into the world of STEM disciplines (Science – Technology – Engineering and Mathematics) through a completely new and playful approach! Boys and girls can construct exciting models while learning interesting facts and doing experiments in each theme.
• Models: Formula, Dragster and Racer

SOLD AS ASSORTMENT
Item #: ENG-SH30
UPC: 756619012087
Case Pack: 18 Box

INVENTOR 12 MODELS INDUSTRIAL
Model ENG-1234
The 12-in-1 INDUSTRIAL models package contains an amazing Snowplow vehicle for clearing the imaginary roads on slippery days! This will make way for the remaining models to go on their work such as the Excavator, the Bobcat and the two Dump trucks (small and large). You can find printed building instructions for 3 models in the booklet included. All 12 models are available as interactive 3D instructions viewed either from a PC or from smart-phones and tablets through the ENGINO 3D Viewer app, downloadable for free in Android, Apple (iOS) and Windows mobile operating systems

Item #: ENG-1234
UPC: 756619011387
Case Pack: 10 Box
INVENTOR 30 MODELS MOTORIZED
Model ENG-3030
Improve your building skills with the 30-in-1 MOTORIZED models package! Pick up things with ease using motor power on the two models of Material lift and Crane. Create amazing vehicles like speedy Formulas and Racers, a Mini Buggy for tough roads, two types of Tricycles and a classic Scooter. You can find printed building instructions for 4 selected models in the booklet included.

Item #: ENG-3030
UPC: 756619011394
Case Pack: 10 Box

INVENTOR 50 MODELS MOTORIZED
Model ENG-5030
Unleash your imagination with the 50-in-1 MOTORIZED models package! The set includes a vast variety of cars and motorbikes to choose from according to your mood. For speed, you can build the fast models of Formula, Dragster, two types of Racers or the aerodynamic FunnyCar. For easy riding, try the large Chopper and Custom Chopper models, the famous Harley or the Knuckle Head and the Low Rider style bikes. You can find printed building instructions for 4 selected models in the booklet included.

Item #: ENG-5030
UPC: 756619011400
Case Pack: 10 Box

INVENTOR 90 MODELS MOTORIZED
Model ENG-9030
Explore your construction potential with the 90-in-1 MOTORIZED models package! The set contains a selection of mechanical constructions that are fun to build and can be educational too! You can find printed building instructions for 4 selected models in the booklet included.

Item #: ENG-9030
UPC: 756619011417
Case Pack: 10 Box
STEM ROBOTIC ERP MINI EDITION
Model ENG-STEM60

Children are eager to experiment with robotics and integrate traditional play and fun with the electronics world. Engino® Robotics Platform (ERP) is specially designed for younger students and takes into account the most modern pedagogical principles of ICT and STEM learning. With ERP intellectual development is approached as an upward expanding spiral in which students must constantly reconstruct the ideas formed at earlier levels with new, higher order concepts acquired at the next level.

STEM MECHANICS LEVERS & LINKAGES
Model ENGSTEM-01

The levers and linkages set teach how levers can be used for increasing an applied force or changing the direction of motion. Find out how you can create models with complex motion by connecting many levers together and learn how these linkages can be applied to various machines.

STEM MECHANICS WHEELS, AXLES, & INCLINED PLANES
Model ENGSTEM-02

The Wheel, Axles and Inclined Planes set teaches how wheel and axles use friction to move object easily and how big tires compare to small tires. Find out how an Inclined Plane can be used for lifting heavy objects and how another form of inclined plane, the wedge, is used in everyday application.
STEM MECHANICS PULLEY DRIVES
Model ENGSTEM-03
The Pulley Drives set teach how Pulley drives can be used to transfer force with reduced friction and how they can increase force or speed at amazing levels. Pulleys have been used for thousands of years and are essential parts to complex machines in modern times to solve many technological problems.

Item #: ENGSTEM-03
UPC: 756619011448
Case Pack: 10 Box

Ages 8 & Up

STEM MECHANICS CAMS & CRANKS
Model ENGSTEM-04
The Cams and Cranks set teaches how you can transmit power using Cams and Cranks and how they can be used to convert reciprocal to linear motion. Discover how these mechanisms are crucial elements of many machines even though they are not considered as a Simple Machines.

Item #: ENGSTEM-04
UPC: 756619011455
Case Pack: 10 Box

Ages 8 & Up

STEM MECHANICS GEARS & WORM DRIVES
Model ENGSTEM-05
The Gears and Worm Drives set teaches how gears can easily reduce or increase speed, change force or transfer motion from one position to another. Discover how worm drives are used to greatly reduce rotational speed and how screws can convert rotational motion to linear, while greatly increasing force.

Item #: ENGSTEM-05
UPC: 756619011462
Case Pack: 10 Box

Ages 8 & Up
STEM STRUCTURES BUILDINGS & BRIDGES
Model ENGSTEM-06
The Building & Bridges set teaches all about buildings and how they literally support our lives! Construct different types of bridges and find out how their architecture design provides massive weight support. Discover all the types of forces applied and how engineers manage to reduce their effects.

STEM NEWTONS LAW
Model ENGSTEM-07
Conduct thorough experiments and discover:
• First law of motion & the relation between force and motion
• Second law of motion and the relation between force, mass and acceleration
• Third law of motion the physics of action & reaction forces
• The concept of Momentum
• The fundamental properties of energy
• What factors affect potential and kinetic energies

STEM SIMPLE MACHINES
Model ENGSTEM-40
Conduct thorough experiments and discover:
• The three classes of levers and the use of linkages
• How to gain mechanical advantage from wheel, axles and inclined planes mechanisms
• How to use pulleys to change force and direction of motion
• How to use cams and cranks to produce different types of motion
• How to calculate gear ratio and how worm drives work.
INVENTOR GIRL 10 MODEL
Model: ENG-IG10
Get kids interested in construction and engineering with INVENTOR® Girl, which links imaginative play with 3D model creation. The vivid colors will intrigue their friends and urge them to explore their creative side. Each set includes a booklet with printed building instructions for 4 selected models.

Item #: ENG-IG10
UPC: 756619012049
Case Pack: 8 Box

Ages 6 & Up

INVENTOR GIRL 15 MODEL
Model: ENG-IG15
Get kids interested in construction and engineering with INVENTOR® Girl, which links imaginative play with 3D model creation. The vivid colors will intrigue their friends and urge them to explore their creative side. Each set includes a booklet with printed building instructions for 4 selected models.

Item #: ENG-IG15
UPC: 756619012056
Case Pack: 8 Box

Ages 6 & Up

INVENTOR GIRL 20 MODEL
Model: ENG-IG20
Get kids interested in construction and engineering with INVENTOR® Girl, which links imaginative play with 3D model creation. The vivid colors will intrigue their friends and urge them to explore their creative side. Each set includes a booklet with printed building instructions for 4 selected models.

Item #: ENG-IG20
UPC: 756619012063
Case Pack: 8 Box

Ages 6 & Up
**STEM ARCHITECTURE SET: EIFFEL TOWER AND SYDNEY BRIDGE**
Model ENGSTEM55

Create two oversized models of the world famous Eiffel Tower in France and the Sydney Harbour Bridge in Australia! The Eiffel Tower model measures 150 cm (59”) tall and the Sydney Harbour Bridge measures 142 cm (56”) in length!

Item #: ENGSTEM55
UPC: 756619012278
Case Pack: 2 Box

**STEM AMUSEMENT PARK SET: LONDON EYE AND FERRIS WHEEL**
Model ENGSTEM56

This set includes one geared motor to power four large-scale models of amusement rides: Ferris wheel, London Eye, merry-go-round and booster ride.

Item #: ENGSTEM56
UPC: 756619012285
Case Pack: 2 Box

**STEM FLUID DYNAMICS SET: ARCHIMEDES PRINCIPLE, BUOYANCY AND STEAMLINES**
Model ENG-STEM45

The set contains 5 different ship models along with their building instructions. In addition, the booklet includes a great deal of useful information and amazing facts, so that you will learn all about sea exploration and navigation.

Item #: ENG-STEM45
UPC: 756619012377
Case Pack: 4 Box
CATERPILLAR
Model TIM-102
From an ugly bug to a beautiful butterfly with one easy motion.

Finished model dimensions:
Width: 180mm
Height: 210mm
Depth: 60mm

- Beginner Level

FISH
Model TIM-101
A fitting, flippy, fishy start for the beginner.

Finished model dimensions:
Width: 260mm
Height: 210mm
Depth: 110mm

- Beginner Level

CHEEKY MONKEY
Model TIM-103
Includes extra connecting disks for adding more monkeys to your model!

Finished model dimensions:
Width: 180mm
Height: 210mm
Depth: 60mm

- Beginner Level
GUITARIST
Model TIM-105
What a groovy mover! You hum it, he'll play it!
Finished model dimensions:
Width: 110mm | Height: 265mm | Depth: 120mm
• Intermediate Level
Item #: TIM-105
UPC: 756619012162
Case Pack: 5 Box

DRAGON
Model TIM-104
A series of crank operated linkages pushes the dragon’s head forward to open his fearsome jaws!
Finished model dimensions:
Width: 220mm | Height: 180mm | Depth: 105mm
• Intermediate Level
Item #: TIM-104
UPC: 756619012155
Case Pack: 5 Box

DRUMMER
Model TIM-106
This multi-tasker manages to operate 2 drums and 2 cymbals whilst moving to the beat.
Finished model dimensions:
Width: 160mm | Height: 220mm | Depth: 70mm
• Confident Level
Item #: TIM-106
UPC: 756619012148
Case Pack: 5 Box

BI-PLANE
Model TIM-107
Those magnificent men in their flying machines. It swoops and dives as the propeller spins.
Finished model dimensions:
Width: 190mm | Height: 270mm | Depth: 20mm
• Confident Level
Item #: TIM-107
UPC: 756619012179
Case Pack: 5 Box