Our mission is to provide quality, innovative toys and educational products that are fun, affordable, engaging, and designed to instill a passion for learning and creating. We’re committed to inspiring imagination, invention, and exploration. We believe the best way to learn is by doing.

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 (Science, Technology, Engineering, Math): 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>3-16</td>
</tr>
<tr>
<td>Project Labs</td>
<td>17-18</td>
</tr>
<tr>
<td>Radio Kits</td>
<td>19</td>
</tr>
<tr>
<td>Tree of Knowledge®</td>
<td>20-21</td>
</tr>
<tr>
<td>EDU Science Kits</td>
<td>22-23</td>
</tr>
<tr>
<td>EDU Microscopes &amp; Telescopes</td>
<td>24-25</td>
</tr>
<tr>
<td>Globes</td>
<td>26</td>
</tr>
<tr>
<td>Earth Science</td>
<td>27</td>
</tr>
<tr>
<td>Jr. Scientist Series</td>
<td>28</td>
</tr>
<tr>
<td>Leonardo Da Vinci</td>
<td>29</td>
</tr>
<tr>
<td>Solar Kits</td>
<td>30</td>
</tr>
<tr>
<td>TEACH TECH™</td>
<td>31-42</td>
</tr>
<tr>
<td>Robot Kits</td>
<td>43-44</td>
</tr>
<tr>
<td>WeMake™</td>
<td>45-49</td>
</tr>
<tr>
<td>Soldering Kits</td>
<td>50</td>
</tr>
<tr>
<td>Component Kits</td>
<td>51-52</td>
</tr>
<tr>
<td>Timberkits™</td>
<td>53-54</td>
</tr>
<tr>
<td>Engino®</td>
<td>55-61</td>
</tr>
<tr>
<td>EL10T</td>
<td>62</td>
</tr>
</tbody>
</table>

**LEGEND**

- **Batteries Required**
- **Solar Powered**
- **Contains Magnets**
- **Contains Uninflated Balloons**
- **Soldering Required**
- **No Soldering Required**
- **Smart-phone Interface**
- **Smart-phone & Tablet Interface**
- **Officially Licensed**
- **Natural Wood**

**CHOKING HAZARD.** Small Parts. Not for children under 3 years old. This warning pertains to all products in this catalog.
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!

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
- Requires 3 "AA" batteries (not included)

Item #: SC-BRIC1
UPC: 756619012360
Case Pack: 6 Box

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 Circuit Safe™ 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, Dr. Toy (100 Best Children’s Products, 10 Best Educational Products, Green Toy Company), The inaugural Seriously STEM Award & KAPI Award.

All SNAP CIRCUITS® products are officially STEM APPROVED by STEM.org
SNAP CIRCUITS® 3D MEG
Model SC-3DMEG

SNAP CIRCUITS® 3D-MEG uses building pieces with snaps to make realistic, 3D 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!

- 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!
- Requires 3 "AA" batteries (not included)

Item #: SC-3DMEG
UPC: 756619011912
Case Pack: 6 Box

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. 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.
- Requires 3 "AA" batteries (not included)

Item #: SC-3Di
UPC: 756619011530
Case Pack: 6 Box
### 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.
- Requires 3 "AA" batteries (not included)

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

### SNAP CIRCUITS® JR.
**Model SC-100**

All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics.

- Electrical components provide 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.
- Requires 2 "AA" batteries (not included)

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

### SNAP CIRCUITS® JR. SELECT
**Model SC-130**

Another great addition to the award-winning Snap Circuits® product line, fully compatible with all Snap Circuits® sets to build bigger, complex, and more creative projects.

- 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.
- Requires 2 "AA" batteries (not included)

**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
- Requires 4 "AA" batteries (not included)

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.
- 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
- Requires 4 "AA" batteries (not included)
SNAP CIRCUITS® EXTREME
Model SC-750

Elenco's Snap Circuits® makes learning electronics easy and fun! 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! All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics. No tools required.

- Over 80 snap-together parts. Build over 750 projects!
- 70 computer interfaced projects and CI-73 manual
- Electrical components provide students ages 8+ with hands-on experience designing and building models of working electrical circuits.
- Snap-together parts require no tools and ensure correct connections.
- Requires 4 "AA" batteries (not included)
- Clear and concise illustrated manual included and available online

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

SNAP CIRCUITS® STEM
Model SC-STEM1

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.

Learn about electricity and magnetism, and how they relate to each other. Projects provide an understanding of magnetic fields, how the electricity in your home works, and how switches control the electricity to the lights in your home. Reinforces STEM concepts with fun and creative activities. Educational manual with a focus on STEM and getting kids excited as they learn.

- 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.
- Requires 4 "AA" batteries (not included)

Item #: SC-STEM1
UPC: 756619011905
Case Pack: 12 Box
SNAP CIRCUITS® GREEN ENERGY
Model SCG-225
Learn about energy sources and how to think green. Build over 125 projects using the flexibility of our award-winning Snap Circuits®. Have loads of fun learning about environmentally-friendly energy, how the electricity in your home works, and electric cars.

Includes full-color manual with over 100 pages and separate educational manual, which explains all the forms of environmentally-friendly energy including: geothermal, wind, solar, tidal, hydro, rechargeable batteries, and others, along with the recent developments in green energy and electric cars.

- Learn about “Green Energy” options.
- Contains over 40 parts. Build over 125 projects investigating alternative energy strategies and electric cars.
- Includes full-color manual with over 100 pages and separate educational manual.
- Features: Mini Car, Hand Crank, Solar Cell, Rechargeable Battery with USB Adapter, Windmill, Liquid Energy Compartment, Clock, Analog Meter, Melody Module, Colorful Lights

Item #: SCG-225
UPC: 756619012841
Case Pack: 6 Box

SNAP CIRCUITS® MOTION
Model SCM-165
Experiment with gears ratios using various gears and pulleys. Experiments include: Color changing lighted fan, air “fountain”, motion detector and so much more! Fun projects let kids learn while they play! With its easy-to-follow instructions, Snap Circuits® gives your child a hands-on education to discover how electrical circuits — like those found in everyday devices kids are familiar with — function and operate. They’ll also gain valuable lessons in building and following instructions. The project manual includes large color illustrations and simple directions for each project.

- Over 50 parts and over 165 project 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.
- Requires 4 "AA" batteries (not included)

Item #: SCM-165
UPC: 756619010397
Case Pack: 6 Box
SNAP CIRCUITS® LIGHT
Model SCL-175

Watch and be amazed at what your music can do with the new Snap Circuits® LIGHT. Connect your iPhone® or other device and enjoy your music as the lights change to the beat. The strobe light with spinning patterns will amaze you with its visual effects. Elenco’s Snap Circuits® makes learning electronics easy and fun! Just follow the colorful pictures in our manual and build over 175 exciting projects. All parts are mounted on plastic modules and snap together with ease. Enjoy hours of educational fun while learning about electronics.

- Over 55 Snap-Together parts. Build over 175 exciting projects.
- Color organ controlled by iPhone® or other device, voice or finger.
- Enjoy your music as the lights change to the beat.
- Requires 4 “AA” batteries (not included)
- Clear and concise illustrated manual included and available online.

SNAP CIRCUITS® ARCADE
Model SCA-200

It’s fun like an Arcade while supporting a vigorous STEM / STEAM curriculum. 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. Learn the basics of electricity, engineering and circuitry with full color, curriculum-rich, easy-to-follow instructions.

- 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.
- Requires 3 “AA” batteries (not included)
Snap Circuits® Snap Rover & Combo Kit

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. This innovative kit offers a fun, hands-on education in electronics, allowing kids to create rovers and other fun devices by snapping together working circuitry. Guide your Snap Rover® with the easy-to-use remote control.

• Over 40 Other Experiments
• Over 50 Parts
• Wireless Remote Control included
• Run up to three Rovers at once
• No Soldering Required
• Multi-function, wireless remote control
• Clear and concise Illustrated Manual Included
• Easy to build using Easy to follow directions
• Requires 1 "9V" and 6 "AA" batteries (not included).

Item #: SCROV-10
UPC: 756619005614
Case Pack: 6 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
• Keyboard with optical theremin
• Sound energy demonstration and Echo effects
• Infrared detector
• Voice changer: record voice or music and play it back at different speeds
• Strobe light and color changing LED
• Use your smart-phone and analyze sounds with apps
• Glow-in-the-dark fan
• Strobe integrated circuits (IC)
• Fiber optic communication
• Pre-punched patterns for motor
• Requires 4 "AA" batteries (not included).

Item #: SCC-350
UPC: 756619010434
Case Pack: 3 Box
**SNAP CIRCUITS® Mini Kit**

**FLYING SAUCER PLUS**
Model SCP-09
- Press and release the switch & watch the saucer rise into the air!
- Requires 3 "AA" batteries (not included).
- 14 Projects

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

**LED FUN**
Model SCP-11
- Create your own colorful light show!
- Requires 4 "AA" batteries (not included).
- 11 Projects

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

**BASIC ELECTRICITY**
Model SCP-10
- Learn about basic electricity principles while having fun!
- Requires 3 "AA" batteries (not included).
- 9 Projects

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

**MOTION DETECTOR**
Model SCP-13
- When motion is detected, a laser sounds & the LED flashes.
- Requires 3 "AA" batteries (not included).
- 12 Projects

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

**FM RADIO**
Model SCP-12
- Build an FM radio that really works!
- Requires 3 "AA" batteries (not included).
- 4 Projects

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

**STROBE LIGHT & SOUND**
Model SCP-14
- Adjustable-speed strobe light with sound effects.
- Requires 3 "AA" batteries (not included).
- 14 Projects

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

**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**

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**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**

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**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**

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**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: 4 Box**

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**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**

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**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**
Snap Circuits®

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!
• Fully-compatible Arduino UNO board with all normal features and is compatible with other Arduino shields and components. Snapino can be used with other Snap Circuits® sets to make larger circuits.
• Includes 20 projects that gradually introduce you to Arduino coding with sketches (programs) already written for operating the 14 included parts. Also find sketches written for Snapino® with other Snap Circuits® sets so you can keep your fun going.
• Includes: 1 Arduino UNO compatible Snapino Module - 6 Snap Circuit Modules - 3 Snap Wires - 1 Snap Jumper Wire - 1 Snap to Pin Wire - 1 USB Cable - 1 9 Volt Battery Holder - 1 Manual. You will need to download the Arduino application from Arduino’s website and download Snapino® Sketches (programs) from the Elenco® website.
• Requires 1 “9V” battery (not included).

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.

COMPUTER INTERFACE FOR SNAP CIRCUITS®
Model CI-73
The CI-73 allows the SC-300 or SC-500 set to interface with a computer! Learn & use an oscilloscope and spectrum analyzer. Included FREE with SC-750!

SNAP CIRCUITS® BATTERY ELIMINATOR
Model AC-SNAP
Works with all models of Snap Circuits® except Snap Rovers
Transformer UL Approved
SNAP CIRCUITS® HOME LEARNING
Model SCHL1

The manual emphasizes the practical applications of electronics, without bogging down on mathematics. This set is as much about science as about electronics. It teaches how to conduct scientific investigation, and the activities develop basic skills needed in today’s world.

• Includes 25 parts
• Downloadable manual with 30 activities and quiz
• Requires 2 "AA" batteries (not included).

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.

• Includes 19 parts
• Downloadable manual with brief introduction, 6 projects, and quiz.
• Requires 2 "AA" batteries (not included).

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.

• Includes 53 parts
• Downloadable manual with introduction, 17 projects, and quiz
• Requires 3 "AA" batteries (not included).

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.
- Requires 2 "AA" batteries (not included).

Includes Student & Teacher Guides and Case

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

Age: 8 & Up

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
- Requires 4 "AA" batteries (not included).

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

Age: 8 & Up
SNAP CIRCUITS

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 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.

- CI-73 - Computer interface w/ 70 extra experiments available
- Requires 4 "AA" batteries (not included).

Includes Student & Teacher Guides

Item #: SC-500R
UPC: 756619005078
Case Pack: 3 Box

SNAP CIRCUITS

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.

- Requires 4 "AA" batteries (not included).

Includes Student & Teacher Guides

Item #: SC-750R
UPC: 756619005621
Case Pack: 3 Box

16
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

- Easy-to-read, illustrated, lab-style manual included.
- Learn basic principles of electricity, electronics, physics and magnetism!
- Comes with built-in speaker, 7-segment LED display, two fully integrated circuits and rotary controls.
- Requires 6 "AA" batteries (not included).

Item #: EP-130
UPC: 756619006987
Case Pack: 6 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
- Requires 1 "9V" battery (not included).

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

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

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

Item #: EP-130
UPC: 756619006987
Case Pack: 6 Box
Project Labs

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!
• Requires 4 "AA" batteries (not included).

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!
• Requires 6 "AA" batteries (not included).

300-IN-ONE ELECTRONIC PROJECT LAB
Model MX-908
• A classic electronics trainer with 300 experiments.
• Basic principles of electronics, electricity, physics & magnetism.
• Includes easy-to-read, lab style, illustrated manual.
• Requires 6 "AA" batteries (not included).
Radio Kits

**ELECTRONIC SHORT WAVE RADIO KIT**
Model MX-901SW

Uses one transistor, 4 resistors and 5 capacitors including a variable capacitor. It has high sensitivity and covers a frequency range from 6MHz to 8MHz for SW and from 12MHz to 18MHz for SW2. Easy-to-read illustrated operating manual included. Requires 1 "9V" battery (not included).

- Item #: MX-901SW
- UPC: 756619001937
- Case Pack: 24 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!
- Tune in your favorite AM/FM radio stations - receives 520 - 1650kHz band and 88 - 108MHz band.
- Easy-to-read illustrated operating manual included.
- Requires 1 "9V" battery (not included).

- Item #: MX-901AF
- UPC: 756619001913
- Case Pack: 24 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.

*Set contains NO harmful chemicals.*

Item #: EDU-36734
UPC: 769188367342
Case Pack: 6 Box

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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.

*Set contains NO harmful chemicals.*

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

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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
- Requires 2 "AA" batteries (not included).

*Set contains NO harmful chemicals.*

Item #: EDU-7075
UPC: 756619006970
Case Pack: 12 Box
DETECTOLAB
Model EDU-7080
• Great starter kit for those interested in forensic science, criminal science investigations and private detectives.
• Over 65 activities
• Kit includes 30X microscope and necessary lab equipment.
*Set contains NO harmful chemicals.*

Item #: EDU-7080
UPC: 756619005980
Case Pack: 12 Box

H2O CLOCK
Model EDU-3130
Run the clock without batteries. Use Fruit Juice, Cola, even Soy Sauce to Generate Electricity!
• A full-colored, simple-to-read instruction manual is included with this kit.
*Set contains NO harmful chemicals.*

Item #: EDU-3130
UPC: 756619012469
Case Pack: 12 Box

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

Item #: EDU-37700
UPC: 769188377006
Case Pack: 6 Box

ROBOTICS
Model EDU-7090
Includes 3 pre-assembled PC boards & 3 robot bodies. 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. Requires 2 "AA" batteries (not included).

Item #: EDU-7090
UPC: 756619006024
Case Pack: 12 Box
EDU Science Kits

8PC. 10” HUMAN ANATOMY MODEL
Model EDU-41006AR
27cm (10” TALL) Anatomy Set with Stand Hand Painted in Vivid & Natural Colors, AR edition. AR (or augmented reality) is the integration of digital information with the user’s environment in real time.
• Hand painted in vivid and natural colors.
• 8 Dissectible parts and ABS base
• Fully illustrated color instruction manual.
• Human Anatomy AR & app

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

GALAXY STAR FINDER
Model EDU-37364
Star projector with instructional pointer.
• Star projector
• Rotational on/off switch
• Light on/off switch
• Instructional pointer
• CyberSky software CD included
• Requires 4 “AA” batteries

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

DIY SOLAR SYSTEM
Model EDU-37365
• Stripe of paint pots and Brush
• Sustain circumgyrate seat
• Sustain arm
• Circumgyrate arm
• Sand paper
• Saturn ring template
• Steel bars and Plastic Parts

Item #: EDU-37365
UPC: 756619012452
Case Pack: 12 Box
4x 6x TWO WAY BUG VIEWER
Model EDU-36888
- Allows 2 People to View Simultaneously
- Ventilated Bug Viewer with Base
- Top View 6x Magnification
- Side View 4x Magnification
- Includes rubber spider

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

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”
- Requires 3 "AAA" batteries (not included).

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 indicator
- Durable ABS body
- Low electrical consumption
- Instruction manual
- Requires 1 "9V" battery (not included).

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

PREPARED MICRO-SLIDES
Model EDU-36729
12 Slides with 36 Assorted Specimens
- Acrylic
- Aspirin
- Bird Feather
- Coffee
- 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

ASTRONOMICAL TELESCOPE & MICROSCOPE SCIENCE KIT
Model EDU-TM236
600x Microscope:
- 8” Microscope
- 10 Blank Slides
- 2 Prepared Slides
- 12 Cover glasses
- 12 Blank labels
- 12 Statical slide covers
- 3x/6x Magnifier
40x Telescope:
- 16” Body & 10” tripod
- 20x 30x 40x Eyepiece
- 2 Collecting vials
- Graduated cylinders
- 4 Collecting containers
- Stirring rod & Button Cell
- Tweezers & Dropper
- Micro Hatchery®
- Goggles & Manual
- 1 CR2032 battery included
- 30mm Ø objective lens
- Diagonal mirror

Item #: EDU-TM236
UPC: 769188032363
Case Pack: 6 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
**EDU Microscopes & Telescopes**

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

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

**100X-750X ZOOM MICROSCOPE SET**  
Model EDU-41001  
- 9” Microscope w/ Huygens’ eyepiece and color filters  
- Micro Data Bank®  
- Micro Slicer®  
- 12 Blank slides and Labels  
- Petri dish with Magnifier®  
- 4 Collecting vials  
- Stirring rod and spare bulb  
- L14 lithium battery included  
- Instruction manual  

Item #: EDU-41001  
UPC: 769188410017  
Case Pack: 6 Box  

**100X 900X ZOOM MICROSCOPE SET**  
Model EDU-41011  
- 9” Die-cast Microscope w/ Huygens’ eyepiece  
- Color filters  
- Micro Data Bank®  
- 12 Blank slides and Labels  
- 12 Glasses and 4 Vials  
- Petri dish with Magnifier®  
- 12 10 ml Graduated cylinders  
- Instruction manual  
- L14 lithium battery included  

Item #: EDU-41011  
UPC: 769188410116  
Case Pack: 6 Box  

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

Item #: EDU-41005  
UPC: 769188410055  
Case Pack: 6 Box
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 it on, it displays the political map of the world.
• Dual power operation (AC adapter included) or batteries 4 "AA" (not included).
• Globe in 2-piece construction with a sturdy base.

Item #: EDU-2837
UPC: 76918836399
Case Pack: 4 Box

11” DESKTOP POLITICAL GLOBE
Model EDU-36899
• 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

5” DESKTOP POLITICAL GLOBE
Model EDU-36920
• 2 piece globe with 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
**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 ago.

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

**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.

Item #: EDU-37329
UPC: 769188373299
Case Pack: 4 Box

Item #: EDU-36793
UPC: 769188367939
Case Pack: 4 Box
Jr. Scientist Series

TUMBLING ROBOT
Model EDU-62019
This little robot is tough! Run by a single motor, he walks with a decidedly "angry" pace -- and if he falls over, he picks himself up again! An awesome design with an amazing gear mechanism, he will not quit! Over 50,000 sold in Japan and a big hit at the International Robot Exhibition. Easy to build.

- Complex motions from a single motor
- 3 modes: fall and get up, dance and somersault mode
- High impact plastic
- Requires 2 "AA" batteries (not included).

Item #: EDU-62019
UPC: 769188620195
Case Pack: 12 Box

STRANDBEEST
Model EDU-62221
Build this Strandbeest kit yourself! It has a very interesting mechanism: blowing into the fan makes the animal start walking against the wind. The wind power is conveyed to the legs by 2 gears.

The 28-page science guide gives you the history of the real Strandbeest that Theo Jansen started building in 1990. The guide also includes easy-to-follow assembly instructions.

6" (H) x 7" (L) x 5" (D)

Item #: EDU-62221
UPC: 769188622212
Case Pack: 12 Box

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)

Item #: EDU-62222
UPC: 769188622229
Case Pack: 12 Box
Leonardo Da Vinci Kits

PADDLEBOAT
Model EDU-61007
Da Vinci brought forth plans for a boat with large wheel-shaped paddles that would propel it through water.

CATAPULT
Model EDU-61009
Leonardo da Vinci unique spring design produces a large amount of energy in order to propel stone projectiles or incendiary materials over great distances.

GREAT KITE
Model EDU-61021
The genius Da Vinci drew inspiration for his work from his direct observation of the flight of a bird.

SELF-PROPELLED CART
Model EDU-61008
Leonardo da Vinci designed the first self-propelled cart capable of moving without being pushed or pulled manually.

SUBMARINE
Model EDU-61020
The submarine has two air chambers, which can be used for steering and for air needed by the pilot, who has a mouthpiece.

SHIP’S CANNON WITH SHIELD
Model EDU-61023
A wooden shield protects the prow of the ship and the cannon. Da Vinci concentrated on the structure of the vessel, which needed to be reinforced to keep the cannon firmly in the middle.
Solar Kits

**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!

Includes:
- Solar Cell
- Angle Stand and Base
- Motor
- Fan
- Cardboard Figures
- Plastic Discs
- Motor Holder and Base
- Wrench and Jumper Wires
- Music Box
- Light Bulb

**6-IN-1 SOLAR KIT**
Model EDU-38006

This do-it-yourself solar kit enables children to assemble the parts and transform them into six (6) different types of motor driven apparatuses actuated by solar power! Projects include: Solar Windmill Solar Airboat Solar Helicopter Solar Robot Solar Airplane and Solar Wheeler. They stand up to 9" tall and work best in direct sunlight, but may work under a very bright light bulb. Parts included: 1 Mini Motor, 1 Solar Panel, 44 pieces of plastic snap-together components, and of course an instruction manual.

- Construct six different motor driven solar models
- Complete easy to read instruction manual
- Explore how solar power works
- Hours of fun constructing models
- No batteries required
INTRODUCING TEACH TECH™

TEACH TECH™ features robotic kits that explore renewable energy and coding! TEACH TECH™ follows the Learn By Doing® philosophy found in all of Elenco’s products. With TEACH TECH™, kids can enjoy hours of educational fun while boosting their confidence and critical thinking skills. Products in this line appeal to anyone who enjoys using their hands to build, tinker, and bring to life their creations with movement, coding, and programming. Those more forward-thinking kids can explore alternative energy with kits that highlight solar, hydraulic, or wind power.
Developed in 2019 with a core focus in STEM education, the TEACH TECH™ product line is comprised of three categories:

**Coding:** These build-it-yourself robots teach children the fundamentals of robotics and coding, while incorporating problem-solving and creativity. Tobbie II and Mech-5 are truly innovative coding robots that will keep children challenged and engaged, while still having fun.

*Electronic Coding Robot: Tobbie II; Mechanical Coding Robot: Mech-5*

**Green-Energy:** With alternative energy playing such a pivotal role, there is no better time than now to start children on the path to learning basic concepts behind these technologies. All TEACH TECH™ Green-Energy robots are powered by either water, wind or the sun, so there are no batteries required.

*Green-Energy Robots: Solar Rover; Solar Mini-Racer; Solar Fun.6; Air Screamer; Rivet-Rex 12; Meta.4; SolarBot.14*

**Mechanical-Robotics:** In the classroom or at home, Mechanical-Robotics have a big impact on STEM education. Learn about robots, and have fun doing it! There are numerous projects, activities and tasks that these robots can accomplish. The possibilities are as limitless as your imagination!

*Mechanical-Robotic Kits: Robotic Arm Wire Controlled; Zivko the Robot; King Lizard Robot; MotoBot.4; HydroBot Arm Kit*
TOBBIE II

- Push button A
- Push button B
- Switch
- Battery AAA x 4 (not included)
- IR Infrared Sensor
- 360° Body Rotation
- 6-Leg Walking
- Customized Stickers
TOBBIE II
Model TTC-894MB

Tobbie II meets Micro:bit. All the benefits of the dynamic Micro:bit have been integrated into the Tobbie II Robot. Tobbie II is a DIY hexiped robot with a 360 degree free-rotation body. Your Tobbie II kit includes all the electronic components, a motor and an IR sensor to fill it with interactive fun. Tobbie II and Micro:bit are an ideal combination to introduce you to coding. You will program with ease in Microsoft MakeCode Editor or Python Editor (for more advanced coders) on your computer, laptop, smart-phone or pad. You don’t even need to download the software or drivers. You can write all your code on the web app. Thanks to the pocket size Micro:bit programmable microprocessor, coding becomes positive, accessible and far more interesting for children to learn and practice. With the surprising capacity of the Micro:bit and mechanical functionality of Tobbie II, you are introduced to the exciting future of coding and robotics.

- Over 115 parts.
- Micro:bit board included.
- Pre-programmed with Assembly Checker & Program #1
- Coding examples & project videos available online
- Build it yourself.
- Dimensions: 7” H.
- Requires 4 "AAA" batteries (not included).
NEW!

MECH 5
MECHANICAL CODING ROBOT

1 Coding
2 Clicking in
3 Operating

Coding wheel
Gear Box
Motor x1

Battery AAA x 2
(not included)

Power Switch

Turn right & left
Go forward or backward
MECH-5
Model TTC-895

The mechanical coding wheel is the heart of Mech-5 Mechanical Coding Robot. Coding is executed effortlessly by snapping the coding buttons onto the coding wheel directing your robot to perform its basic functions – move forward, backward, right or left, spin or pause. Thanks to this simple to follow approach, coding and performing more challenging tasks like throwing, lifting, kicking or drawing, become achievable as the user’s coding skills increase.

This mission-based, entry level STEM coding robot is designed to inspire users to learn about mechanical engineering principles and coding basics. It encourages children to think while also developing their problem-solving and troubleshooting skills when faced with different tasks and difficulties. Engage in the coding world and beyond by challenging yourself with your very first coding robot.

- Over 220 parts.
- Unplugged, no need for computer or app. Great toy to get the kids off the screen!
- Build it yourself.
- Manual includes 5 suggested activities.
- Dimensions: 8” H.
- Requires 4 "AAA" batteries (not included).
META.4
Model TTG-617
Meta.4 introduces Robotics to younger children with larger, easier to handle parts. Build and rebuild 4 different models, one at a time. Your Meta.4 is powered by clean, green, sunlight so no batteries are ever needed. Builds can be easily dissembled and reassembled to make any one of the 4 models.

- Build the T-Rex that walks on 2 legs with jaws that try to eat everything in their path.
- Build the Rhino Beetle with 6 legs and a gaping jaw.
- Build the Drill Vehicle with a rotating drill bit.
- Build the Robot with visible gears that shuffle it forward.
- Over 60 parts.
- Build it yourself.
- 4 projects.
- Models vary in size, Robot is 2” L / 4” W / 2”H
- SOLAR POWERED: No batteries needed

Item #: TTG-617
UPC: 756619012711
Case Pack: 32 Box

SOLARBOT.14
Model TTG-615
Every hour more solar energy reaches the Earth than humans use in an entire year. Solar panels, or photovoltaic panels, convert the sun’s energy into usable electricity. Solar power is one of the alternative energies used most widely across the globe. Your SolarBot.14 kit contains unique components & parts to construct robots that operate on land and water. Construct 14 different solar powered robots from functional to comical designs. After assembling a model, the user can easily reassemble components into different models. These robots are powered by direct sunlight. No batteries required.

- Over 250 parts.
- Build it yourself.
- 14 projects.
- Models vary in size, PaddleBOT is 10” L / 4” W / 2” H
- SOLAR POWERED: No batteries needed

Item #: TTG-615
UPC: 756619012698
Case Pack: 18 Box
SOLAR ROVER
Model TTG-684
It’s an 6 drum-wheeled, all-terrain solar vehicle, equipped with mechanical suspension and a 4x4 drive system. Your Solar Rover conquers terrain and crosses boundaries with ease. The fantastic Planetary gears transmission system and adjustable robotic arms add more excitement and fun for Rover operators to play and learn. Just assemble, find some sun and let your Rover rove.
No batteries required. Just take your time, follow the clearly illustrated instructions, and get to work.
- Over 60 parts.
- Build it yourself.
- Size: 4” L / 3” W / 4”H

Item #: TTG-684
UPC: 756619012803
Case Pack: 32 Box

SOLAR FUN 6
Model TTG-610
Solar panels, or photovoltaic panels, convert the sun’s energy into usable electricity. Start your engineer on the road to discovery, introduce them to challenging build plans, troubleshooting and problem solving and solar power. Build and rebuild over and over again. Detailed instructions take you through each step. Which will be your favorite?
Your SolarFun.6 kit contains unique components & parts to construct solar devices that operate on land, water and in the air. Construct 6 different solar powered models (one at a time). After assembling a model, the user can easily reassemble components into different models. These robots are powered by direct sunlight or a strong light. No batteries required.
- Over 15 parts.
- Build it yourself.
- 6 projects.
- Models vary in size, Solar Windmill is 7” L / 2.5” W / 6”H

Item #: TTG-610
UPC: 756619012780
Case Pack: 32 Box
SOLAR MINI-RACER
Model TTG-681
Build a Solar Mini-Racer! It possesses all the qualities of a five tool player: strength, power, speed, building and cost effectiveness. The Solar Mini-Racer is supported by a strong metal base and backed by a lightweight design giving it amazing quickness with a catch me if you can attitude.

Solar power is the power of the future, see how the solar panel converts the sun’s energy into electrical energy. The Solar Mini-Racer will bring excitement for ages 8 and up, a fun-filled learning experience and moments of greatness.

• Over 15 parts.
• Build it yourself.
• Dimensions: 2.5” L / 2.5” W / 2.5”H
• NO BATTERIES NEEDED - Just the sun.

Item #: TTG-681
UPC: 756619012797
Case Pack: 60 Box

AIR SCREAMER
Model TTG-631
Air vehicle? What’s going on? It’s compressed air exploding out of the tank to run a pneumatic motor powering gears and moving your vehicle. Compressed air vehicles have been in the works for years with functional locomotives in the 1870’s and cars in the early 20th century. This is the technology behind the fantastic vehicle that is the Air Screamer. Pump up the volume ….. of air. Fill the tank one crank at a time. The crank is built in to the Screamer’s body. If you crank too much, the safety valve bleeds out air until the tank reaches optimum pressure.

In optimum conditions your Screamer will travel over 50 meters at 45 miles per hour. Wow! NO BATTERIES REQUIRED
• Over 100 parts.
• Build it yourself.
• Dimensions: 9” W / 6” H

Item #: TTG-631
UPC:756619012773
Case Pack: 15 Box
RIVET-REX12
Model TTG-618

Every hour more solar energy reaches the Earth than humans use in an entire year. Solar panels, or photovoltaic panels, convert the sun's energy into usable electricity. Solar power is one of the alternative energies used most widely across the globe. Start your engineer on their road to discovery. Introduce them to challenging build plans, troubleshooting and problem solving and solar power. Build and rebuild over and over again. Detailed instructions take you through each step. Your Rivet-Rex 12 kit contains unique components & parts to construct hydro-mechanical robots that operate like animals. Powered by direct sunlight. NO BATTERIES REQUIRED.

- Sizes range from Obstacle Avoiding Rover: 4.37" L / 3.66" W / 4.25" H to Pterosaurs: 8.97" L / 9" W / 10.15" H
- Over 200 parts.
- Build it yourself.
- 12 projects

Hydrobot Arm Kit
Model TTR-632

Hydraulics are introduced and investigated with this nifty TEACH TECH™ kit. Young engineers will be delighted with a new Hydraulic Robotic Arm Kit. Use levers and the power of hydraulics to activate the multi axis arm. NO BATTERIES REQUIRED. Powered by water and You, lever controllers have a special braking system that helps to achieve fine, accurate tasks. Grippers can be removed and replaced with suction components to pick up objects with smooth surface areas of no greater than 50 grams (1.75 oz.). Use all 6 axis to control your Robotic Arm. The gripper can open and close with a maximum 47 mm (1.89 in.) gap, wrist joint rotation of 180 degrees, wrist joint mobility of 98 degrees, elbow joint range of 44 degrees, base rotation of 270 degrees, and shoulder joint motion of 45 degrees. With a vertical reach of 16.35 inches, horizontal reach of 12.42 inches. 50 gram lifting capacity.

- Over 230 parts.
- Build it yourself.
- Dimensions: 9" L / 6.3" W / 15" H
ROBOTIC ARM WIRE CONTROLLED
Model TTR-535

Robotic Arm Wire Controlled has extensive range of motion though all pivot points. It’s an introduction to Robotics and Mechanical Engineering that will excite young and old engineers. 5 Motors power 5 joints for optimum control. Assembly is simple enough with NO SOLDERING required, just side clippers, a screw driver and a brain. Develop problem solving skills while you assemble and start operating your own robot arm.

- Lifting capacity: 100 g (3.5 oz)
- Horizontal reach 320 mm
- Vertical reach 380 mm.
- Base rotation range 270°
- Base motion range 180°
- Over 200 parts.
- Build it yourself.
- Dimensions: 9” L / 6.3” W / 15” H
- Requires 4 "D" batteries (not included).

MOTOBOT.4
Model TTR-891

MotoBOT.4 brings robotics to life for your young engineer. Build and rebuild over and over again. 4 Builds total. There’s the Bug, creeping you out with all 6 legs. The Truck, it’s transmission keeps things rolling. The biped Tumbler makes you giggle. The angry Robot - what’s his deal? The answer must be in the gears.

Project builds give young learners the opportunity to read and follow assembly plans, troubleshoot problems and derive satisfaction from a job well done, while developing fine motor skills needed for mechanics, engineering, art and surgery. MotoBOT.4 requires 1 AA battery, a phillips head screwdriver and diagonal cutters (not included).

- Over 60 parts.
- Build it yourself.
- 4 projects.
- Models vary in size, Robot is 2” L / 2” W / 2.5”H
KING LIZARD ROBOT KIT
Model TTR-892
King Lizard is modeled after Australian Frilled Lizards. When these lizards are surprised or threatened they exhibit a pretty spectacular display. First it’s the wide open, hissing mouth with sharp little canine teeth. Then comes the big reveal, the neck frills jump from limp to frightening in a snap. This aggressive behavior is truly a bluff and if you don’t run away, the lizard will.

King Lizard functions with two AI modes, “Chase” and “Escape”. With the 2 mode switch, when the infrared (IR) sensor is activated in the “Escape” mode, the King Lizard will act startled. When the IR sensor is activated in the “Chase” mode, your King Lizard will bluff the threat, you, with an energetic frill display. If your King Lizard does not sense danger it will follow you like a pet.

- Over 90 parts.
- Build it yourself.
- Dimensions: 14.5” L
- Requires 4 "AAA" batteries (not included).

Item #: TTR-892
UPC: 756619012735
Case Pack: 14 Box

ZIVKO THE ROBOT
Model TTR-893
Zivko is an intelligent Hexiped robot. What a great introduction to Artificial Intelligence (AI) technology. Zivko has two function modes: Follow or Explore.

In "Follow" mode, Zivko follows whoever approaches it, and acts like an obedient pet and follows you around.

In "Explore" mode, Zivko can avoid obstacles and find a new route to explore. The little robot offers exciting sound and light effects. It develops its own emotions and gestures, just like your pets.

Try to challenge Zivko and figure out what it can do. Create a maze for it to navigate or explore its surroundings and see if it can follow you. Most of all, do not treat it like a normal robot toy, but like an adorable smart friend.

- Over 100 parts.
- Build it yourself.
- Follow and Explore mode
- Dimensions: 7” H
- Requires 4 "AAA" batteries (not included).

Item #: TTR-893
UPC: 756619012759
Case Pack: 14 Box
Robot Kits

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.
- Requires 4 "AA" batteries (not included).

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)
- Requires 4 "AA" batteries (not included).

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.
- Requires 2 "AA" batteries (not included).
SCARAB ROBOT KIT
Model 21-884

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.

- Requires 4 "AAA" batteries (not included).

Item #: 21-884
UPC: 756619007281
Case Pack: 24 Box

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).
- Requires 1 "9V" and 2 "AA" batteries (not included).

Item #: 21-882
UPC: 756619002323
Case Pack: 42 Box

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.

- Requires 2 "AA" batteries (not included).

Item #: 21-885
UPC: 756619007298
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 50mm)
- **Rosin**: 10g
- **Base size**: 7.5” x 6.7” (190 x 170mm)
- **Requires 4 “AA” batteries (not included).**

TWO IC FM RADIO KIT W/ TOOLS
Model WMSK200
The WMSK200 includes a 25W soldering iron with stand, side cutters, safety glasses and an FM-88K Two IC. (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.) 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 (99.3% tin, 0.7% Copper. 5ft @ 0.031” diameter)**
- **Requires 1 "9V" battery (not included).**
SOLDERING REQUIRED

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.

- No previous soldering knowledge required
- Complete with all components
- Includes soldering iron and wire cutters
- Lesson manual and self-test included.
- Requires 1 "9V" battery (not included).

Item #: AK-100
UPC: 756619910000
Case Pack: 12 Box
Ages 12 & Up

SOUND REVERSING CAR KIT
Model WMSK300
Build this kit to assemble a robot car with a sensor to detect noise (like a clap) or physical contact — and the robot reacts!

- 25W soldering iron with stand
- Wire cutters and Safely glasses
- Lead free solder (99.3% tin, 0.7% copper. 5ft @ 0.031" diameter)
- Car body, wheels, PC board
- Detailed, easy-to-follow instruction.
- Requires 2 "AA" batteries (not included).

Item #: WMSK300
UPC: 756619012186
Case Pack: 8 Box
Ages 12 & Up

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: 25/50 Box
Ages 13 & Up
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 inches (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 with stand
- 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.
WeMake™

LEAD-FREE SOLDER
Model WMLF993
3-pack. Rosin core, 0.031” diameter 99.3% tin, 0.7% copper. 4.84 g. 5 ft length (ea.).

Item #: WMLF993
UPC: 756619011547
Case Pack: 48/192 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up

LEAD-FREE SOLDER 1 LB. ROLL
Model WM1LB
Rosin core, 0.031” dia. 99.3% tin, 0.7% copper.

Item #: WM1LB
UPC: 756619011615
Case Pack: 12 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up

DESOLDERING PUMP ANTI-STATIC
Model WMSP4
Deluxe, high-vacuum pump. Anti-static tip.

Item #: WMSP4
UPC: 756619011554
Case Pack: 12 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up

SIDE CUTTERS
Model WMSC1
Drop forged, polished carbon steel, return spring, blue foam cushion grip. 4½” long.

Item #: WMSC1
UPC: 756619011561
Case Pack: 10 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up

LONG NOSE PLIERS
Model WMLNP2
Drop forged, polished carbon steel, return spring, blue foam cushion grip. 5” long.

Item #: WMLNP2
UPC: 756619011578
Case Pack: 10/200 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up

3-W WIRE STRIPPER/CRIMPING 16-26AWG
Model WMS30
7-in-1 all-purpose wire stripper, cutter, pliers, and crimper. Cushion grip. Strips AWG 16-26. 6” long.

Item #: WMS30
UPC: 756619011592
Case Pack: 10 Box

WARNING: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Ages 12 & Up
**WeMake™**

**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° to 900°F.

- SL-75 Variable temperature station with conical tip
- SL-75T2 Wedge tip
- SP-1A Solder practice kit
- ST-1 Side cutters
- SE-1 Solder ease kit
- Lead free solder
- Requires 1 "9V" battery (not included)

**HANDS-ON BASIC ELECTRONICS KIT**
Model SKM-250

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.

- SL75 Variable Temperature Solder Station with iron and extra tip.
- SP3B Learn to Solder Practice Kit
- SE1 Solder Tool Kit and ST3 Wire Stripper
- M1000 Multimeter and CC100 Color Code Calculator
- Lead free solder
- Requires 2 "9V" battery (not included)

**SURFACE MOUNT TECHNOLOGY SOLDERING PROGRAM WITH TOOLS**
Model SK-300

This kit will give you hands-on solder training to develop techniques to tackle almost all new electronic products today.

- SL75 - 48W Solder station w/ soldering iron & how to solder manual
- SL75T2 - Extra wedge soldering tip & HH60 - Deluxe helping hand
- SM200k - Surface Mount Technology (SMT) training kit w/ manual
- SP4 - Desoldering Pump and ST22 - Safety glasses
- ST83 - 4pc. Non-conductive tweezer set
- ST84 - Universal tweezer and ST110 - Hook and scraper

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**WARNING**: Cancer and Reproductive Harm www.P65Warnings.ca.gov.
Soldering Kits

AM/FM RADIO KIT
Model AMFM108CK
Training course of 56 pages is divided into 9 lessons: Audio Amplifier, AM Detector, AM IF, AM Amplifier, AM Mixer & Oscillator, FM Detector, 1st FM IF, 2nd FM IF, and FM RF Stages. “Superheterodyne” designed to receive standard AM (amplitude modulation) and FM (frequency modulation) broadcast frequencies. New transistor module allows you to switch between the modern integrated circuit (IC) technology and the original transistor technology. Includes radio mounting stand.
- Requires 1 "9V" battery (not included).
- Dimensions: 11" x 6" x 1.75"

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.
- Requires 1 "9V" battery (not included).
- Dimensions: 5.25" x 3.5" x 1.75"

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.
- Requires 1 "9V" battery (not included).
- Dimensions: 5.25" x 3.5" x 1.75"
Component Kits

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 m- 5 values. 500-1MΩ
- Diodes
- LEDs red, green, white, yellow
- 7-segment display
- 5V Relay
- Photo Cell
- Push button switch
- Miscellaneous Components

Item #: CK-1000
UPC: 756619003535
Case Pack: 12 Box

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.

Item #: RCK-465
UPC: 756619009117
Case Pack: 10 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.

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

WARNING: Cancer and Reproductive Harm
www.P65Warnings.ca.gov.

Ages 13 & Up
# Component Kits

## 1/4W Carbon Film Resistor Kit
Model RK-370
Contains five each of 74 standard values from 1Ω to 10mΩ 1/4 watt, 5% tolerance, carbon film. 370 pieces total, 74 values. Packaged in a cardboard organizer box.

<table>
<thead>
<tr>
<th>Item #: RK-370</th>
<th>UPC: 756619009704</th>
<th>Case Pack: 48 Box</th>
</tr>
</thead>
</table>

## 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.

<table>
<thead>
<tr>
<th>Item #: DIOK80</th>
<th>UPC: 756619009131</th>
<th>Case Pack: 48 Box</th>
</tr>
</thead>
</table>

## LED Assortment Kit
Model LEDK80
Contains a variety of types & colors: small, standard, large, rectangular, bi-color, blinking, ultra bright, red, amber, green, blue, yellow & white. 80 pcs total, 18 varieties. Comes in a cardboard organizer box.

<table>
<thead>
<tr>
<th>Item #: LEDK80</th>
<th>UPC: 756619008585</th>
<th>Case Pack: 14/56 Box</th>
</tr>
</thead>
</table>

## Transistor Kit
Model TRAK-100
Contains an assortment of transistors, NPN, PNP, FET’s, Darlington, & Power. 100 pcs total, 15 types. Comes in a cardboard organizer box.

<table>
<thead>
<tr>
<th>Item #: TRAK-100</th>
<th>UPC: 756619009735</th>
<th>Case Pack: 48 Box</th>
</tr>
</thead>
</table>

## Hook-Up Wire Kit
Model WK-103
Contains three 25 ft. spools of #22 gauge solid wire - Red, yellow, and black in a dispenser box.

<table>
<thead>
<tr>
<th>Item #: WK-103</th>
<th>UPC: 756619009391</th>
<th>Case Pack: 75 Box</th>
</tr>
</thead>
</table>

## Hook-Up Wire Kit
Model WK-106
Contains six 25 ft. spools of #22 gauge solid wire - red, yellow, black, white, green, and blue in a dispenser box.

<table>
<thead>
<tr>
<th>Item #: WK-106</th>
<th>UPC: 756619009407</th>
<th>Case Pack: 25/50 Box</th>
</tr>
</thead>
</table>

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**WARNING**: Cancer and Reproductive Harm
www.P65Warnings.ca.gov.
TIMBERTECH CAMS FOR 4 LEARNERS
Model TIMB-0002
Contains components for 4 models with a choice of 3 different cam and wheel mechanisms for children to design and build their own object to bring to life.
- Beginner Level

Item #: TIMB-0002
UPC: 756619012988
Case Pack: 20 Box

TIMBERTECH LINKAGES FOR 4 LEARNERS
Model TIMB-0005
A complete set of Timberkit parts for individual design and experimentation. Contains components for children to design and build their own object to bring to life.
- Beginner Level

Item #: TIMB-0005
UPC: 756619012988
Case Pack: 20 Box

FISH
Model TIM-101
A fitting, flippy, fishy start for the beginner.
Finished model dimensions:
Width: 260mm | Height: 210mm | Depth: 110mm
- Beginner Level

Item #: TIM-101
UPC: 756619012124
Case Pack: 5 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
- Confident Level

Item #: TIM-102
UPC: 756619012117
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

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

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  
The Bi-Plane 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
OUR EDUCATIONAL PHILOSOPHY
BEHIND EVERY TOY

ENGINO® is a leading brand in creative construction toys. Since 2005, worldwide awarded ENGINO® has playfully introduced children to STEM learning principles and technologies. We provide industry leading products, adapted to the learning needs of our users. All our products have an emphasis on quality, learning experience, collaboration and development of design and engineering thinking. Our mission is to inspire the inventors of tomorrow!

Our products are more than toys. They are enriched with our 15 years of expertise in STEAM education. At ENGINO®, the design and development of each toy we make is based on our multi-level teaching methodology. This concept builds on the latest research results while taking into account the tremendous benefits of using a construction system as your main teaching tool. This methodology is presented in the diagram as a series of five encompassing layers.

- At the center of all layers, there is the “heart” of the methodology, the ENGINO® building system! The unique ability to easily build and modify technical models can lead to enhanced dexterity skills and perception of the 3D space, while providing the platform to extend learning through each of the outer layers.
- The next layer represents the latest trend in education science that incorporates Arts within the STEM curriculum. Even though Art is an inherent part of the engineering design process, “A” puts emphasis on one of the highest brain functions of human beings—inspirational creativity! ENGINO® has organically embedded the concepts of inventing, architecture, music and art into its products, including the “making” stage where kids can snap surfaces of their own artwork on the assembled models.
- The next layer engages kids more deeply in STEM learning as they now need to solve a real-life problem. Problems are approached either as engineering design challenges or as scientific experiments. During these processes, kids build a model, modify it to meet the challenge requirements, test it and observe the results, and draw conclusions. This is an iterative process that leads to higher level learning and the acquisition of engineering design skills.
- Once kids complete their challenge or experiment, they are more eager to learn about the underlying technology that dictates their solution. ENGINO® supportive material contains a wealth of theory and facts about each subject. Kids can also seek their own answers, a process that will help the implementation of inquiry-based learning.
- Ultimately, by guiding kids through this interactive, multi-level approach, they can attain high levels of thinking, acquire inventive skills and become a problem solver of enhanced creativity and imagination!
INVENTOR 12 MODELS INDUSTRIAL
Model ENG-1234
The 12-in-1 INDUSTRIAL models contain a snowplow, excavator, bobcat and two dump trucks. Includes printed building instructions for 3 models in the booklet. All 12 models are available as interactive 3D instructions viewed through the ENGINO 3D Viewer app.

Item #: ENG-1234
UPC: 756619011387
Case Pack: 6 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. Requires 2 "AAA" batteries (not included).

Item #: ENG-3030
UPC: 756619011394
Case Pack: 6 Box

INVENTOR 50 MODELS MOTORIZED
Model ENG-5030
Unleash your imagination with the 50-in-1 MOTORIZED models! 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 Harley or the Knuckle Head and the Low Rider style bikes. Requires 2 "AAA" batteries (not included).

Item #: ENG-5030
UPC: 756619011400
Case Pack: 4 Box

INVENTOR 90 MODELS MOTORIZED
Model ENG-9030
Explore your construction potential with the 90-in-1 MOTORIZED models! The set contains a selection of mechanical constructions that are fun to build and can be educational too! Includes printed building instructions. Requires 2 "AAA" batteries (not included).

Item #: ENG-9030
UPC: 756619011417
Case Pack: 4 Box
**STEM ROBOTIC ERP MINI EDITION**  
Model ENG-STEM60

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. Requires 3 "AAA" batteries (not included).

**STEM MECHANICS LEVERS & LINKAGES**  
Model ENG-STEM01

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. You can find easy-to-follow building instructions for all models either online or in the booklet included. The booklet provides detailed explanations of the different scientific principles applied and incorporates innovative experimental activities for hands-on learning.

**STEM MECHANICS WHEELS, AXLES, & INCLINED PLANES**  
Model ENG-STEM02

Learn how Wheels and Axles use friction to move objects 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 every day applications. Build 14 working models such as a launching platform, a door with knob, a well, an airport staircase, an experimental ramp and a splitting wedge.
STEM MECHANICS PULLEY DRIVES
Model ENG-STEM03
Learn 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 of complex machines in modern times, solving many technological problems. Build 8 working models such as a material lift, a stationary bike, a crane bridge, a blender, a construction crane and a windmill.

Item #: ENG-STEM03
UPC: 756619011448
Case Pack: 6 Box

Ages 8 & Up

STEM MECHANICS CAMS & CRANKS
Model ENG-STEM04
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. You can find easy-to-follow building instructions for all models either online or in the booklet included. The booklet provides detailed explanations of the different scientific principles applied and incorporates innovative experimental activities for hands-on learning.

Item #: ENG-STEM04
UPC: 756619011455
Case Pack: 6 Box

Ages 8 & Up

STEM MECHANICS GEARS & WORM DRIVES
Model ENG-STEM05
Learn 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. Build 12 working models such as an experimental crane, a gearbox, a carousel, a helicopter, a screw press and a crane with a rotating arm.

Item #: ENG-STEM05
UPC: 756619011462
Case Pack: 6 Box

Ages 8 & Up
STEM STRUCTURES BUILDINGS & BRIDGES
Model ENG-STEM06
Learn 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. Build 9 working models such as a house, a pyramid and various types of bridges: beam, arch, truss, cable-stayed and suspension bridge.

STEM NEWTON’S LAWS
Model ENG-STEM07
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 energy

STEM SIMPLE MACHINES
Model ENG-STEM40
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.
STEM ARCHITECTURE SET: EIFFEL TOWER AND SYDNEY BRIDGE
Model ENG-STEM55
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!

- Models illustrated online at Engino website or using the Engino 3D app

Item #: ENG-STEM55
UPC: 756619012278
Case Pack: 2 Box

STEM AMUSEMENT PARK SET: LONDON EYE AND FERRIS WHEEL
Model ENG-STEM56
Engino brings complex concepts into clear focus for budding engineers and scientists with award-winning components and step-by-step illustrated assembly instructions.

- Build 7 models including the Ferris wheel, the London eye, a merry-go-round and booster ride.
- Manual includes detailed graphical instructions for 7 models
- Requires 2 "AAA" batteries (not included).

Item #: ENG-STEM56
UPC: 756619012285
Case Pack: 2 Box

STEM FLUID DYNAMICS SET: ARCHIMEDES PRINCIPLE, BUOYANCY AND STEAMLINES
Model ENG-STEM45
This Fluid Dynamics set includes plans for 5 different vessel models and their building instructions. In addition, the accompanying booklet includes 12 pages of theory and facts, 2 pages with experimental activities, a 2-page quiz along with 10 pages of step-by-step instructions. You can also view your builds using the free downloadable iOS and Android Engino app at Engino.com.

Item #: ENG-STEM45
UPC: 756619012377
Case Pack: 4 Box
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

Engino® Inventor Girl
EL10T

NEW!

Meet EL10T
My first coding robot.
Mission: code and explore with EL10T

EL10T
Model EDU-EL10T

Code and explore with EL10T! Coding blocks introduce young minds to programming and programming concepts.

- Build important logic, problem solving, sequencing and critical thinking skills.
- Coding Blocks program directions and EL10T's movement. Left turns, right turns and straightways.
- Insert coding blocks into the Control Panel base and upload into EL10T's helmet. You really do put the ideas in EL10T's head.
- Understand the process of "writing" and "rewriting" code by changing the sequence of blocks in the control panel.
- Start coding with the 16 mission cards- graduate to coding EL10T’s movement through your house.
- Includes 20 coding blocks, 16 mission cards with 3 levels of difficulty plus a two sided mat-map.
- Dimensions: 6” H
- Requires 7 "AA" batteries (not included).

Item #: EDU-EL10T
UPC: 756619012834
Case Pack: 4 Box

Ages 3 & Up