Check out the experiments in the 44 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

1-Introduction
2-Parts Inventory
3-Preactivity
4-Lesson 1: Experiment 1:
5-Experiment 2:
6-Experiment 3:
7-Experiment 4:
8-Lesson 2:
9-Experiment 5:
10-Experiment 6:
11-Experiment 7:
12-Experiment 8:
13-Experiment 9:
14-Lesson 3:
15-Experiment 10:
16-Experiment 11:
17-Experiment 12:
18-Experiment 13:
19-Experiment 14:
20-Experiment 15:
21-Experiment 16:
22-Experiment 17:
23-Experiment 18:
24-Experiment 19:
25-Experiment 20:
26-Experiment 21:
27-Experiment 22:
28-Experiment 23:
29-Experiment 24:
30-Experiment 25:
31-Experiment 26:
32-Experiment 27:
33-Experiment 28:
34-Lesson 4:
35-Experiment 29:
36-Experiment 30:
37-Experiment 31:
38-Experiment 32:
39-Experiment 33:
40-Experiment 34:
41-Lesson 5:
42-Experiment 35:
43-Experiment 36:
44-Experiment 37:
45-Experiment 38:
46-Experiment 39:
47-Experiment 40:
48-Experiment 41:
49-Experiment 42:
50-Experiment 43:
51-Experiment 44:
52-Experiment 45:
53-Experiment 46:
54-Experiment 47:
55-Experiment 48:
56-Experiment 49:
57-Experiment 50:
58-Experiment 51:
59-Experiment 52:
60-Experiment 53:
61-Experiment 54:
62-Experiment 55:
63-Experiment 56:
64-Experiment 57:

Electronic Communication
Morse Code Generator
1-Wire Telegraph System
2-Wire PA System
Coaxial Cable PA System
Alternating Current (AC) Characteristics
Radio Communication & Electromagnetic Waves
Frequency Spectrum
Wireless Lightwave Communication

Communications Lab
Absolutely the best introduction to Radio Communications and Opto-Electronics.

Build:
- PA Systems with Microphone and Speakers
- AM Radio Receiver
- AM & FM Broadcast Stations
- Optical Receivers & Transmitters
- Infrared Communication Links
- Fiber Optic Communication Links
- IR Remote Control Transmitters and Receivers
- IR Proximity Detectors
...and Many More!

This lab was created with the student in mind. It will keep the hands and minds of the students busy building amazing communication experiments by using wire, fiber optics, radio waves, light and infrared links. No previous knowledge or experience is required.

Kit includes:
- Over 50 Electronic Components
- 2 Solderless Breadboards
- 64 Page, Fully Illustrated Manual.
- A Tuner Board (Requires Soldering)

Check out the experiments in the 44 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

1-Introduction
2-Parts Inventory
3-Preactivity
4-Lesson 1: Experiment 1:
5-Experiment 2:
6-Experiment 3:
7-Experiment 4:
8-Lesson 2:
9-Experiment 5:
10-Experiment 6:
11-Experiment 7:
12-Experiment 8:
13-Experiment 9:
14-Lesson 3:
15-Experiment 10:
16-Experiment 11:
17-Experiment 12:
18-Experiment 13:
19-Experiment 14:
20-Experiment 15:
21-Experiment 16:
22-Experiment 17:
23-Experiment 18:
24-Experiment 19:
25-Experiment 20:
26-Experiment 21:
27-Experiment 22:
28-Experiment 23:
29-Experiment 24:
30-Lesson 4:
31-Experiment 25:
32-Experiment 26:
33-Experiment 27:
34-Lesson 5:
35-Experiment 28:
36-Experiment 29:
37-Experiment 30:
38-Experiment 31:
39-Experiment 32:
40-Experiment 33:
41-Lesson 6:
42-Experiment 34:
43-Experiment 35:
44-Experiment 36:
45-Experiment 37:
46-Experiment 38:
47-Experiment 39:
48-Experiment 40:
49-Experiment 41:
50-Experiment 42:
51-Experiment 43:
52-Experiment 44:
53-Experiment 45:
54-Experiment 46:
55-Experiment 47:
56-Experiment 48:
57-Experiment 49:
58-Experiment 50:
59-Experiment 51:
60-Experiment 52:
61-Experiment 53:
62-Experiment 54:
63-Experiment 55:
64-Experiment 56:

Communications Lab
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...and Many More!

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Kit includes:
- Over 50 Electronic Components
- 2 Solderless Breadboards
- 64 Page, Fully Illustrated Manual.
- A Tuner Board (Requires Soldering)

Try it! We are sure you will be completely satisfied with this new Chaney lab.

C6763 $44.95
34 in 1 Deluxe Exploration ROBOTICS LAB

Introduce your students to the fundamentals of robotics technology while building 28 different robots in one. The student starts by building a simple robot, and then disassembles it to progress to building more complex designs which are remote controlled with IR (infrared) vision and object avoidance. This lab is totally REUSABLE and will stimulate the students' minds in robotic technology. Try it! You will love it!

LAB INCLUDES:
- High Quality Breadboard
- 3 Wheels, 2 Motors, 2 Belts, and Various Mechanical Parts
- Attractive Smoked Plexiglass Base
- All necessary Electronic Parts
- Fully Illustrated Instructional Manual
- Relay Board (requires soldering)

LEARN ABOUT:
Robot Motor Traction & Power System
Robotic Motion
Time Controlled Motion
Remote Controlled Motion
Robotic Vision (CDS & Infrared)
Sound Detection & Control
... and many more topics.

BUILD THE FOLLOWING ROBOTS:
Explorer I and II
The Unstoppable
The Independent Minded Robot
The Night Runner
The Day Runner
The IR (eye) Robot
Obedient I (Remote Controlled Robot)
Obedient II (Remote Controlled Robot)
Robot Pet
Obstacle Avoiding Robot I
Obstacle Avoiding Robot II
Big Ears Robot
The Music Dancer Robot
... and many more.

C6762 $69.00

Check out the experiments in the 34 in 1. Each one is designed to progress in an easy-to-follow and logical manner. Each experiment explores both meaningful and interesting topics:

1. Lesson 1: Introduction To Robotics
2. Inventory & Parts Identification
3. Lesson 2: The Chaney Robotics Lab
4. Experiment 1: Assembling and Testing the Robot Motor System
5. Experiment 2: Assembling the Robot Base and Power System
6. Experiment 3: Assembling and Testing the Relay Control Board
7. Experiment 4: Robot Forward Motion
8. Experiment 5: Robot Backward Motion
9. Experiment 6: Robot Forward Right Turn
10. Experiment 7: Robot Backward Right Turn
11. Experiment 8: Robot Hard Right Turn
12. Experiment 9: Robot Forward Left Turn
13. Experiment 10: Robot Backward Left Turn
14. Experiment 11: Robot Hard Left Turn
15. Experiment 12: Time Controlled Motion I
16. Experiment 13: Time Controlled Motion II
17. Experiment 14: Time Controlled Hard Right Turn
18. Experiment 15: Time Controlled Hard Left Turn
19. Experiment 16: Explorer I Robot
20. Experiment 17: Explorer II Robot
21. Experiment 18: The Unstoppable Robot
22. Experiment 19: The Independent Minded Robot
23. Experiment 20: The Night Runner Robot
24. Experiment 21: The Day Runner Robot
25. Experiment 22: Infrared (IR) Vision
26. Experiment 23: The IR-Eye Robot
27. Experiment 24: Obedient I - IR Remote Controlled Robot
28. Experiment 25: Obedient II - IR Remote Controlled Robot
29. Experiment 26: Robot Pet
30. Experiment 27: IR Obstacle Avoiding Robot I
31. Experiment 28: IR Obstacle Avoiding Robot II
32. Experiment 29: Sound Detection (Robot Ears)
33. Experiment 30: Big Ears Robot
34. Experiment 31: The Music-Dancer Robot
Intro to SMT

Chairy Electronics would like to introduce you to the tiny world of SMT . . .

Intro to Surface Mount Technology

This Chairy Training Course will introduce your students to the latest assembly technology known as “Surface Mount Technology”. Surface mount technology uses tiny leadless components, known as surface mount devices (SMDs) which are quickly replacing standard electronic components. Currently most electronic equipment incorporates this exciting new technology.

By completing this course, the student learns concepts about surface mount technology (SMT) such as: the different types of surface mount devices (SMDs), the various types of surface mount assemblies, the automated soldering methods, and all of the stages of the manual and automated assembly processes of surface mount circuits. The student gains experience identifying, soldering and using surface mount devices by physically building an actual working surface mount technology project.

This course is the perfect introduction to SMT and does not require any previous knowledge of this topic. It was designed so that the teacher does not need to be involved (unless he or she desires to be). The course is self-contained and reusable with the exception of the SMT project kit: “Deluxe SMD Learn to Solder Kit” (Stock #C6719) which may also be purchased separately. A small soldering iron with a fine point and some solder is all that is required to build the included kit.

We are offering this training course at an exceptional value. So please don’t delay, order your Introduction to SMT Course today!

Introduction to Surface Mount Technology Training Course with Experimentation and Project Building comes with detailed instruction manual, identification parts (both SMD and Standard), one “Deluxe SMD Learn to Solder Kit,” and a magnifier with tweezers (pictured above).

C6725 $22.95
25 in 1 Deluxe Magnetism, Motors and DC Circuits Exploration Lab

This fun, interesting and reusable Exploration Lab is perfect for any beginning student in Science, Electricity/Electronics, or Physics. Not only does this course introduce students to important concepts in magnetism, but also it introduces them to resistance, capacitance, diode action, LEDs, electromagnets, motors, switch operation, color code for resistors, series/parallel circuits, basic Ohms Law, current flow measurement and even electricity generation.

This breadboard kit requires no soldering and is battery operated for safety. This course doesn’t require any previous experience or knowledge. The instructor does not need to be involved if he or she chooses not to and the Lab will amaze and provide interesting experiments to motivate your students. This Lab can be used over and over again so it is very economical.

The 25 in 1 Deluxe Magnetic Lab covers some of the same concepts that are presented in our 33 in 1 Electronic Exploration Kit, however the 33 in 1 moves onto electronic concepts whereas this Lab concentrates on electricity and magnetism concepts and goes into more depth in these areas. It’s best to have the students complete the 25 in 1 Deluxe Magnetism Lab first and then move on to the 33 in 1 Deluxe Electronic Exploration Lab Kit if possible, although each Lab can be used alone and neither Lab requires any previous knowledge of electricity!

The Deluxe Magnetism Lab Instruction Manual features 25 exciting and fun to build learning experiments. Each experiment has an explanation, a hands on Lab that the student completes and a short quiz to help with the learning experience and reinforce important concepts.

Please look at the list of experiments on the right and you’ll discover that the 25 in 1 Deluxe Magnetism, Motors and DC Circuits Exploration Lab is the best introduction to electricity and magnetism, at an affordable price, on the market today. Complete with all parts, universal breadboard and comprehensive Lab Manual. Requires 4 "C" batteries (not included). Skill Level 1.

C6819  $20.95
Solar Exploration Lab

10 in 1
Solar Energy Exploration Lab

Our newest re-usable Exploration Lab requires no soldering or previous electronic experience. The lab enables any student to experiment with free electricity generated from the sun. Its applicable for use in elementary grades up through college and is safe and easy to use. The lab is meant to be used over and over again to save money. The lab is complete with instruction booklet and is designed so that the teacher does not need to be involved (unless he or she desires to be). Utilizes a quality universal plug-in breadboard with high quality powerful solar panel, resistors, diode, motor with prop, electronic buzzer, flashing LED, super capacitor and wires. There’s nothing extra that you’ll need to use this lab and unlike other solar labs on the market, you will get more value from our product as it has many experiments that are unique to our 10 in 1 Solar Exploration Lab. Of course, you’ll get a prop experiment plus 9 more fun and educational experiments to challenge you students. In addition you will receive detailed descriptions of the concepts that each experiment covers. In all you will find that the added detail and additional experiments that The 10 in 1 offers make it a superior product more suitable for use in educating your students. We know you will like our new Solar Energy Exploration Lab and will want to have one for everyone in your class. Listed below are the main experiments/activities that the student will perform.

C6853 $29.95

Introduce your students to SOLAR ENERGY with our new 10 in 1 Solar Exploration Lab!

Check out the experiments / learning activities in the 10 in 1 Solar Energy Exploration Lab. Each one is designed to progress in an easy-to-follow and logical manner. Look at these meaningful and interesting topics:

1) Introduction to Solar Cells
2) Solar Panels
3) Diode Action
4) Solar Powered DC Motor
5) Resistors and Color Code
6) Solar Powered Alarm
7) Solar Power Storage
8) Solar Powered Flashing Light
9) Solar Pulsating Alarm
10) Another Environmentally Safe Method of Generating Power

This Lab comes with a special glass Solar Panel that produces a useful amount of voltage and current so that it can be used to perform your own experiments!
If you are introducing soldering kits to your students, you'll want this value packed exciting new 4 in 1 package. The student starts by following detailed instructions on “how to solder” and builds a non-functional “learn to solder” practice kit. This allows the beginner to gain hands-on soldering experience with actual components onto a PC board without worry about ruining kit functionality in the process. After the proper soldering skills are mastered, the student can then progress on to each of the 3 remaining functional kits with experience and confidence. Each remaining kit is battery operated, fully functional and can be mounted in an optional project box (if desired). At the conclusion, the student has built 1 non functional kit and 3 fully operating kits that he/she can enjoy. All 4 in 1 kits are rated Skill Level 1 and come complete with all parts, PC board and detailed instructions. Each kit (except the non functional Learn To Solder Kit) operates from a 9V battery (not included). We offer two different 4 in 1 packages to choose from (each package is sold separately):

**LEARN TO SOLDER KIT**
Complete kit of parts and PC board to introduce students to solder techniques. The student solders the electronic components to the PC board to gain ample practice in good soldering. By the time the student has finished building this non functional kit, he or she should know how to solder and how to identify various electronic parts. This kit does not function and is meant for practice and training only. Size of PC board: 2.5" x 1.25".

**SECRET IRRITATOR KIT**
Connect a battery to this kit, hide it in a room and wait for the fun to begin. About once a minute, the kit will produce a 3 second long tone then remain silent for another minute before making another sound. It is difficult for another person to find it because it remains silent for so long. Size of PC board: 2" x 1.25".

**ELECTRONIC SIREN KIT**
This kit produces the upward and downward wall of a “police siren” as you press and release a small pushbutton. Uses a small speaker. Size of PC board: 2" x 1.25".

**MULTICOLOR LED FLASHER KIT**
Bright multicolor LED flasher uses 2 red LEDs, 1 yellow and 1 green LED. Kit has a control that can be adjusted to cause 2 groups of 2 LEDs to alternately flash or adjust the control so that all 4 LEDs flash together. Features reliable IC circuitry. Size of PC board: 2" x 1.25".

**PHASOR RAY KIT**
This kit generates the sound of a phasor ray gun and flashes a brilliant orange light. Uses a small speaker, a crystal clear lens LED and 2 transistor circuit with adjustable sound control. Size of PC board: 2" x 1.25".

**RED STAR FLASHER KIT**
This kit will really attract attention as it flashes a bright red star made up of six 5mm red LEDs. Features simple and reliable 2 transistor circuit. Size of PC board: 2" x 1.25".

**YES/NO DECISION MAKER KIT**
Simply press the button on your decision maker kit and two brightly colored LEDs will begin to flash. As soon as you release the button, one of the LEDs will remain on. The green LED indicates yes and the red LED indicates no. Uses IC circuit. Size of PC board: 2" x 1.25".

**YES/NO DECISION MAKER KIT**
This kit generates the sound of a phasor ray gun and flashes a brilliant orange light. Uses a small speaker, a crystal clear lens LED and 2 transistor circuit with adjustable sound control. Size of PC board: 2" x 1.25".

Classroom Solder Practice Activity For up to 24 Students
Here’s the perfect way to introduce soldering to your students and give them the necessary soldering experience needed to build electronic kits. This activity box contains 24 etched and drilled 2 1/2" x 1" PC boards, a large bag of resistors, a bag of capacitors, a bag of diodes, a bag of LEDs, two different sizes of IC sockets and a bag of transistors. All the components and circuit boards necessary to give 24 students ample practice in soldering. As a bonus we also include a Transparency Set that has information for the teacher to use to teach soldering techniques, a small commercially assembled board that the teacher can show students what good soldering joints look like, and a demo software disk that has a section on soldering and component ID. All that is needed is solder, soldering irons, cutters and safety glasses. (Most school shops already have these, or they can be purchased at your local radio store.) You get over 400 practice parts and 24 non-functional circuit boards for practice. Note: In the bottom right of the photo we show you how an assembled board will look like. Skill Level 1.

C6774  $125.00
C6836  $20.00

C6880  PACKAGE “A”  $14.95
C6881  PACKAGE “B”  $14.50

Optional Boxes for Above Kits: Type 1 C6363 $1.00 EA. (3 Boxes for 3 Kits)
Learn to Solder Robot Kit

This unique flashing Robot will not only help you learn good soldering techniques but will also be the center of attention wherever it is placed! The eyes, center LED and both hand LEDs flash brightly for weeks continuously or for months when you turn it off at the end of the day. Consists of 2 circuit boards and various electronic parts that you solder to the boards. You first solder the non-functional components in to learn good soldering techniques, then you progress to the functional LEDs. Simple to build and can be customized to make unlimited variations (you can paint the boards before assembly, pose the arms and eyes, change the appearance of the antenna, etc.)! The 3 1/2” tall x 7/8” wide Learn to Solder Robot uses one 9V battery (not included) which also allows it to stand on just about anything (keyboards, monitors, desks, books, etc.). Unique design incorporates the battery into the robot. Simple to build! Skill Level 1.

C6845       $8.95

Learn to Solder Kit

Special kit designed for the student who has not had any experience with soldering. This kit has 30 components to solder in giving the student ample soldering experience. The first 20 components to be soldered are used to gain soldering experience, but the last 10 components, when soldered in, make up a bright red and yellow alternating LED flasher! The LED flasher portion is built after the student has soldered the 20 practice components, which include: capacitors, a transistor, resistors, and an IC socket. The student, when he completes his kit, should have developed good soldering techniques and has a functioning LED flasher to show for his/her efforts. This kit requires one 9V battery (not included). Size of board: 4.75” x 3”. Complete with all parts (including practice parts for soldering) and complete soldering instructions. Skill Level 1.

C6445       $7.00

Learn to Solder Rocket Kit

This special kit is the perfect kit to introduce students to good soldering techniques. When completed, the 4” tall rocket flashes 13 bright red LEDs and will stand upright on a desk or shelf. The student learns to solder by following the detailed instructions showing how to solder the 22 practice components. These include cable, capacitors, diodes, resistors, and transistors. With the knowledge and skills obtained from soldering the practice components, the student then finishes the rocket by installing the 13 bright LEDs that flash when a 9V battery is connected (battery not included). Size of rocket PC board is 4 3/8” tall x 1 1/4” wide. Complete with all parts, PC board and instructions. Skill Level 1.

C6864       $9.00

Universal Learn to Solder Kit

Here’s the perfect kit to give students experience in learning soldering techniques for both standard and SMD components. The student begins by soldering various standard lead components such as transistors, capacitors and an IC socket. The student then progresses to SMD sections (on the reverse side of board) where the student practices soldering various SMD parts such as transistors, diodes, resistors, capacitors and an IC. Finally, the student builds a functional Insanity Alarm Kit (see description on pg. 44) which is constructed using both regular and SMD components so that some parts are on each side of the board. The Insanity Alarm operates on one 9V battery (not included). Size of PC board: 2 1/2” sq. Kit is supplied with 33 parts, PC board and instructions. Skill Level 1.

C6758       $6.95
**Deluxe Learn to Solder Kit**

This special kit is similar to the regular “Learn To Solder Kit” shown on page 16, however, this kit has some very unique features. Not only does it have a special non-functioning “Learn To Solder” section, it also has two additional kits on one circuit board. You get a bright yellow and red “Jewel” LED Flasher Kit and also an Insanity type Alarm Kit. The deluxe learn to solder kit uses a specially designed circuit board that allows you to build all three kits. After construction and testing, you simply snap the main circuit board into the 3 separate individual kits.

1. The Learn to Solder middle section is constructed first to give your student ample soldering experience.
2. Next, the student constructs the Insanity type Alarm Kit section. This unique kit is equivalent in operation to our most popular selling Insanity Alarm Kit (see page 37). It emits a piercing tone when the lights go out, but stays perfectly silent when they turn on the lights to look for it.
3. Finally, the student completes the more complicated “Jewel” LED Flasher Kit section. This IC circuit kit alternately flashes 4 bright red LEDs with one bright yellow LED. This unique kit is more challenging to build and is the perfect “wrap up” to test the students skill in making kits.

Remember, you get all three kits listed with all parts and PC board. Requires two 9V batteries (not included), one for each functional kit. Overall size of circuit board before snapping it apart is 5.5” x 1.75”. Order this unique kit now for a complete solution to your kit building needs! Skill Level 1.

**C6491 $9.75**

**OPTIONAL PLASTIC BOX FOR ABOVE:**

**TYPE 2 BOX C6364 $1.50 (REQUIRES TWO TYPE 2 BOXES)**

**Deluxe SMD Learn to Solder Kit**

Here’s the perfect way to gain experience in soldering, identification and use of Surface Mount Device (SMD) technology. This kit features 32 SMD components, including 3 SMD 8 pin ICs, microprocessor IC, capacitors, resistors, transistors and a LED. The first 24 components are parts used to gain ample soldering experience with SMD parts as the student solders the various parts onto the practice section of the PC board. The last 8 SMD components are used to make an IC type dual LED flasher. This section of the kit flashes a dual color SMD LED. It flashes red then green from the same LED. Not only does the student learn to solder SMD parts but in the end the student has an attractive and functional SMD dual color LED flasher to show for his/her effort. Operates on one 9V battery (not included). Size of PC board: 2” x 3”. Complete with all parts, PC board and instructions. A super value! Skill Level 2.

**C6719 $6.95**

**OPTIONAL PLASTIC BOX FOR ABOVE:**

**TYPE 2 BOX C6364 $1.50**

**Complete Introduction to Kit Building**

This super package helps your student succeed in building electronic kits because it contains everything your student needs to get started. This is an amazing value and it provides an easy way to get started in the “Fun of Kit Building”.

**C6898 $18.95**

The package contains:

- Low wattage 120VAC soldering Iron
- Tube of 60/40 rosin core solder for electronic kit building
- Sharp wire cutting plier
- Special soldering helping hands with adjustable board holder, magnifying glass, solder tip cleaner sponge and soldering iron holder
- Pair of safety glasses
- Learn to Solder Kit; Non-functional PC board and components that the students build to learn how to solder.
- “Blinder” Led Flasher Kit (see C6891 on page 29 of this catalog). This is a fully functional, one IC kit that the student builds after he/she learns how to solder. Requires one 9V battery (not included).
- Complete detailed instructions

Contains everything needed for the novice to start building kits right away: Tools, Solder, Kits & more!

**OPTIONAL PLASTIC BOX FOR ABOVE:**

**TYPE 2 BOX C6364 $1.50**

**REQUIRES TWO TYPE 2 BOXES**
Robot Kits

Treasure Trakkor Robot Kit
This exciting and amazing new robot kit travels at super fast speeds looking everywhere for lost coins. As soon as the Treasure Trakkor detects a coin lying on the floor, it shuts off its high speed motors and sounds an electronic tone, plus it lights up 2 bright electronic LEDs to tell humans that it has detected money. Just hit the reset button and the Treasure Trakkor Robot starts exploring again. It uses a unique spring type vibration sensor that causes it to change direction whenever it hits an obstacle or wall. Operates on any hard, smooth surface (gym floor, vinyl, concrete, marble, etc.). Features bright colorful blinking LEDs, 2 powerful motors, a dip switch to adjust turning times. Size of robot is about 8 1/2” x 4 1/2”. Operates on four AA batteries (not included). Complete with all parts, PC board and instructions. Skill Level 2.

C6760 $29.95

IR Vision Rover Robot Kit
This incredible robot can actually see! As it explores, it emits invisible beams of IR (infrared) light which reflects off any obstacles in its path, including walls, rocks, humans, boxes, etc. Its simple brain and sensor causes the IR Vision Rover Robot to turn backwards and then go forward in a different direction avoiding the obstacle it has detected up to one foot away. It can even be remotely controlled from up to 25 feet away by using any standard VCR/TV IR remote control that you have. Simply point and press almost any button on your remote and you will notice that your IR Vision Rover Robot will immediately back up and then go forward in a different direction. The Rover emits beeps and blinks bright colorful LEDs as it explores. Operates from only two AA batteries (not included). Features DC-DC converter circuitry, sensitive IR sensor module, 2 IR LEDs, 9 colorful LEDs, 2 powerful motors and reliable drive train. It’s a fun kit to build, and an excellent introduction to robotics for your student. Size about 5 1/2” x 6 1/2”. Works on any smooth hard surface. Complete with all parts, PC board and instructions. Skill Level 2

C6761 $35.95

Aqualocator Robot Kit
Here’s an exciting colorful addition to our robot line. The Aqualocator Robot constantly spins, scoots, twirls or glides as it searches for water or soda pop that may have been “spilled” on a floor. As soon as it finds a “puddle” the bright red LED ring on top made up of 12 LEDs shuts off, its 3 powerful motors shut down and a group of 4 bright green LEDs light up showing that the robot has indeed found a water spill! Works on any smooth floor or surface (no carpet or pavement). Operates from one 9V battery (not included). Uses 2 PC boards and 3 motors. Top PC board can be customized by painting before assembly (if you desire). Size of PC boards: 2.9” dia. Complete with all parts, 2 PC boards and instructions. Skill Level 2.

C6883 $24.95

CE2S Soundseeker Robot Kit
Chaney Electronics is proud to introduce this fast soundseeking robot. Its unique unpredictable moves attract crowds of onlookers wherever it operates. The CE2S uses an IC and 7 transistor circuits with adjustable controls for motor activation times and sound sensitivity. Uses a sensitive microphone which constantly “sniffs” the area for sound. When it detects it, the colorful LEDs at the front of the robot flash and the robot stops for a second and then changes direction. Uses 15 LEDs total and is very colorful. You can even paint the PC board before you assemble it if you wish. Operates from a 9V battery (not included). Designed to travel on any smooth surface (not carpet or pavement). Size approximately 4.9” L x 4” W. Complete with all parts, PC board, 2 motors and instructions. Skill Level 3.

C6882 $32.95

Mr. Edgey Robot Kit
Mr. Edgey robot kit uses his “brain” to detect the edge of the surface he is travelling on. He uses a vibrating motor for motion and has an LED sensor at the front to detect “the edge”. As soon as the front of Mr. Edgey passes the edge of a surface, the motor shuts down and the LED stays on indicating “the edge”. Have contests with other “edge” robots to see which one gets to the edge first, or which one is not adjusted properly and falls off the side first. Robot comes with built-in rechargeable batteries and wall adapter AC charger (no batteries to buy). Size of PC board: 3” x 2”(triangle). Complete with all parts, PC board, rechargeable batteries, AC wall adapter/charger and instructions. Skill level 2.

C6896 $12.95
Alien Warbot Robot Kit
Activated by IR energy, this kit remains motionless until it detects IR energy. It will come to life when you press random buttons on any TV/VCR remote or by our IR Activator Robot Kit (sold below). When activated, it vibrates/scoots on any smooth surface and also flashes 7 bright LEDs while emitting a pulsating low frequency "vibrating" sound. Movement stops as soon as the source of IR energy stops. Operates from one 9V battery (not included) and features two special IR sensors, a special vibrating motor disk, sensitivity control and transistorized circuit. Round PC board is 2 3/4" in Dia. and can be customized by painting it with your paint before you solder it (if desired). Complete with all parts, PC board and instructions. Skill Level 2.

C6870 $14.95 ea.

IR Activator Robot Kit
Our special IR Activator Kit vibrates and scoots while flashing 1 red LED and 6 IR LEDs. If placed near an Alien Warbot, the IR Activator Robot will cause the Warbot to immediately come to life and either move towards it to attack or away from it to run! This kit is not activated by IR energy, in fact its job is to produce crystal controlled IR energy to activate IR sensitive robots. Operates from one 9V battery (not included). PC board is 2 3/4" Dia. and can be customized by painting it with your paint before you solder it (if desired). Complete with all parts, PC board and instructions. Skill Level 2.

C6871 $15.95 ea.

Classroom Alien Warbot Combination Package
Here's a great way to save money and give students the exciting kits they want to build. This package includes 7 Alien Warbot Robot kits for the students to build, plus a free IR Activator Robot kit for the teacher to build. The Alien Warbot kits after assembly can be placed in a grouping on a large table or smooth floor. When the teachers IR Activator Robot is placed in the center of the group, the Alien Warbots activate and go crazy trying to avoid it. It's amazing to watch them scoot, spin, backup, etc. See above for detailed descriptions of the robots. Remember, you get 7 Alien Warbot Kits and 1 IR Activator Kit as described above (This is a $120.00 value!). Skill Level 2.

C6865 $104.00

Night Popper Learn To Solder Robot Kit
The Night Popper waits until it gets dark and then it starts its random exploring. While it explores it sets off a brilliant almost firework looking display from its 3 white lamps and emits a crackling/popping sound from its onboard piezo. The special bonus with this robot is that you get 2 snap off PC boards with 21 components that you solder in before building the robot. Robot itself is about 3 1/8" square. With the learn to solder boards attached its 4" square. Requires 2 "AA" batteries and one 9V battery (batteries not included). With parts and instructions. Skill Level 1.

C6887 $17.95