

AMAZING TALENT IN ALL OF US

OWIKIT™

EST 1980

2023



**MY CYBER HAND
MAKES ME FEEL LIKE
A GIANT!**



**WOOF!
WOOF!**



BUILD A ROBOTIC HAND!



ROBOTICS ALTERNATIVE ENERGY KITS SCIENCE KITS STEM + STEAM

ROBOTIKITS™
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NEW PRODUCT



Cyber Hand OWI-844



Feel like a GIANT with OWI's **Cyber Hand**. Measuring 16" in length (twice the length of the average adult hand), our robotic-loving friends can easily assemble a mechanical right-handed STEM tool. Pick up small objects, pet your dog; you are in complete control. Four spring-loaded flexor control abductors with an adjustable palm plate allow you to flex **Cyber Hand's** joints. Push aside the other toys and have your friends admire your new creation. No motors, water, or electricity required. We value our building and construction fanatics for over 40 years of affirmation. This one is for you!

No. of pieces: 125

Batteries: Not required

Dimensions of assembled product: 16" (L) x 7"(W) x 7.5"(H)

Max bearing: 600g. Single finger: 60g

Recommended age: 10+



ROBOTICS

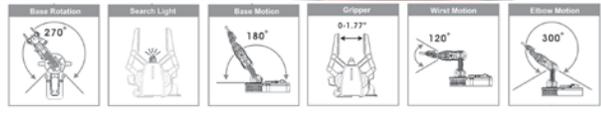
ROBOTIC ARM EDGE- WIRELESS OWI-537



For years OWI has featured Robotic Arm Technology. OWI has cur the cord, releasing an amended edition of an all-time classic. **Robotic Arm Edge Wireless** features all of the specifications that made Robotic Arm Edge an award winner. Students will have full command of the gripper to open and close. Wrist motion of 120 degrees, with an extensive elbow range of 300 degrees. Base rotation of 270 degrees, and base motion of 180 degrees. Vertical reach of 15 inches, horizontal reach of 12.6 inches, and a lifting capacity of 100g. Playtime can extend deep into the night with the added searchlight featured on the gripper. All commands will be executed with the five S: Five-switch wireless remote control. Scholarly children ages 13+ will test their manual dexterity as they work through building the five individual gearboxes required to function all five joints of the arm. With the **Robotic Arm Edge Wireless**, boys and girls alike will enjoy simulating robotics technology utilized in industrial applications with the freedom of a wireless interface!



AGES 8+



AGES 13+

Specifications: Battery: Robot- 'D' size battery x 4 (not included); Wireless Remote - "AA" size battery x 2 (not included). Dimensions: 9" L x 6.3" W x 15" H; Weight: 658g; No. of pieces: 197 pcs.



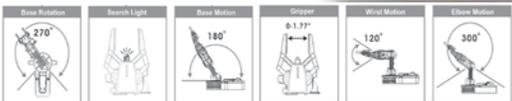
- Rhode Island Monthly Top Ten Toys for 2009

ROBOTIC ARM EDGE OWI-535



OWI has made robotic arm technology more affordable without compromising quality. With **Robotic Arm Edge**, command the gripper to open and close, wrist motion of 120 degrees, an extensive elbow range of 300 degrees, base rotation of 270 degrees, base motion of 180 degrees, vertical reach of 380mm, horizontal reach of 320 mm, and lifting capacity of 100g. WOW! Some of the added features include a search light design on the gripper and a safety gear audible indicator is included on all five gear boxes to prevent any potential injury or gear breakage during operation. How does this equate to fun? Total command and visual manipulation using the 5s: five switch wired controller, five motors, and five joints. Night time play is possible and extended life on the gearbox to prolong your control and predictions of the robot's behavior. **AGES 13+**

Specifications: Battery: 'D' size battery x 4 (Not Included); Dimensions: 9" L x 6.3" W x 15" H; Weight: 658g; No. of pieces: 197 pcs.



AGENT992: ROBOT KIT

3 INVESTIGATIVE MODES:



Agent992 Robot kit

OWI-992

Smart undercover robotics kit that entertains and teaches infra-red capabilities to inquisitive ages 8 and up. OWI's **Agent992 Robot's** 140 assembly pieces are the ideal level of difficulty taking the user's assembly skills beyond rudimentary snap together type kits. A classified, press-button switch instructs **Agent992 Robot to transform into 3 investigative modes**. Forward mode, Gesture Control mode, and Auto Navigation mode. Challenge several levels of thinking skills with the **Agent992 Robot kit**. Simple and basic (forward direction): eyes turn RED and forward maneuver is executed. Eyes turn BLUE when the Gesture Control is activated to command OWI's special agent to follow the Lead Detective's hand forward and backward. Graduating to the next level, apply advanced reasoning skills by designing obstacles or maze courses; **Agent992 Robot's** auto navigation mode sets its mission when eyes turn PURPLE. Strategic experimentation utilizing Agent992's tactical resources can complete "Mission Impossible". Easy, entertaining, and fun.

No. of pieces: 140 pcs.

Batteries: AAA x 4 (not included)

Dimensions of assembled products: 6.70" x 5.90" x 3.94"

Recommended age: 8+

CyberCrawler Robot kit

OWI-995

Smart coding robotics kit that entertains and teaches programming skills to inquisitive ages 8 and up. OWI's **CyberCrawler Robot's** 76 assembly pieces are the ideal level of difficulty taking the user's assembly skills beyond rudimentary snap together type kits. A simple, press-button programming keypad embedded on its cranium provides immediate feedback as **CyberCrawler Robot's** LEDs illuminate and the robot executes programmed animations. There is no need to download codes from a personal computer or tablet via USB or Bluetooth connections; the technology required is on-board! Challenge several levels of thinking skills with the **CyberCrawler Robot kit**. Simple and basic (forward, backward, left turn, and right turn) with each command powering the robot for timed intervals. Use mathematical time measurement distance coding methodology to travel from point A to B. Graduating to the next level, apply advanced reasoning skills by designing obstacles or maze courses. With a maximum storage capacity of 64 tasks, **CyberCrawler Robot** is a terrific tool to teach the joy of coding. Easy, entertaining, and fun... rejoiced by effortlessly pushing a few buttons.

No. of pieces: 76 pcs.

Batteries: AAA x 4 (not included)

Dimensions of assembled products: 9.35" x 5.72" 2.75"



AGES 8+



Ozkar Vacuum Robot

OWI-993



Ozkar Vacuum Robot the infrared sensor detecting mini trash can cleaner robot kit has spent life traveling the galaxies and surveying uninhabitable regions. **Ozkar Vacuum Robot** set its infrared sensor to search for life in the universe, and in doing so, discovered Earth. Now that **Ozkar Vacuum Robot** has finally found life, it loyally scans its surroundings by using AI (artificial intelligence), I/R (infrared sensor) which allows it to seamlessly complete obstacles.

OBSTACLE AVOIDANCE



AGES 8+

Once your budding engineer (age 8+) constructs this 40-piece STEM kit, they will quickly realize this is no ordinary robot. **Ozkar Vacuum Robot** offers a stimulating insight into how its commercial cousins navigate their surroundings to "clean-up" small particles of dust. Most of all do not treat **Ozkar Vacuum Robot** as an ordinary robot, but rather, a scholarly and helpful friend!

No. of pieces: 40 pcs.

Batteries: AA x 4 (not included)

Dimensions of assembled product: 3.46"X 3.74"X 4.84"

RE/CO ROBOT

OWI-997



RE/CO Robot (RE/CO short for remote control) is the adventurous, off-roading sibling to KikoRobot.962. Like its family member, **RE/CO** comes equipped with an infrared sensor and artificial intelligence. But, where **RE/CO Robot** differs from KikoRobot.962 is its ability to be controlled wirelessly, and it's tank-like tracks, that are perfect for rugged conditions. For the first time, future engineers will be able to interact with their OWI Infrared Robot kit, from a distance! With the wireless remote control added, **RE/CO Robot** can access new play modes like storytelling, singing, dancing, and even programming! Children can enjoy guiding **RE/CO Robot** over all sorts of terrain or allow the friendly robot to lead the way, using its infrared sensor to find a clear path, in patrol mode. For parents who look to get the most out of their children's playtime, **RE/CO Robot** is a great all-in-one package. Combining DIY assembling with 106-pieces, STEAM Learning with Infrared Sensors, Programming with easy directional commands, and having fun with the freedom of a handy wireless remote control.



AGES 8+



Specifications: Battery: Robot - "AAA" size battery x 4 (not included); Controller - "AAA" size battery x 2 (not included)
 Dimensions: 6.30" L x 6.89" W x 3.74" H;
 No. of pieces: 106 pcs.



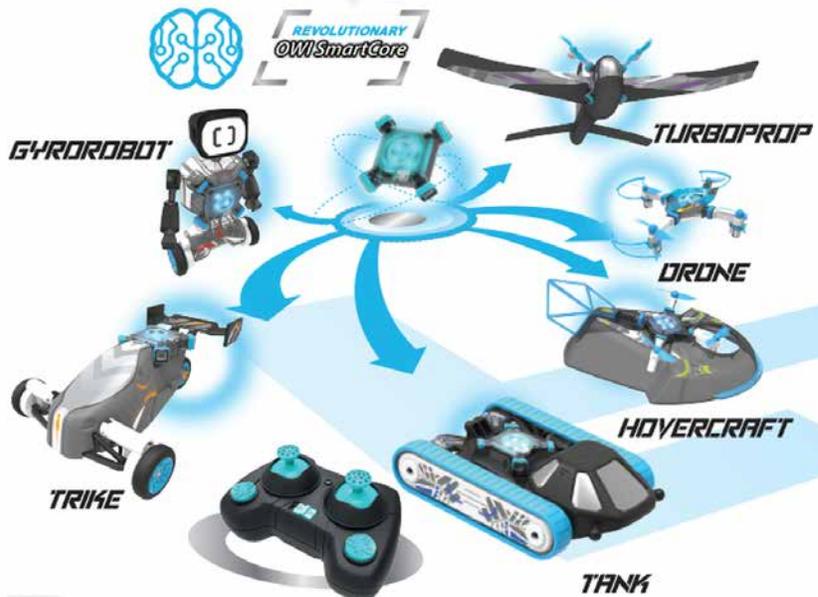
AGES 8+

SmartCore 6

OWI-41802



Take control of land and sky with **SmartCore 6**. This kit features 6 separate models: three land vehicles (Tank, Gyrobot, Trike), and three sky vehicles (Turboprop, Drone, Hovercraft). With forty-four easy to snap together parts, tomorrow's innovators will learn the STEAM principals associated with physics, aerodynamics, and electronics when they build and remix **SmartCore 6**.



The magic of **SmartCore 6** lies within OWI SmartCore technology. When connected to one of the six vehicles, OWI SmartCore acts as a digital brain using a patented algorithm that evaluates the best way to control each vehicle. With gyros and sensors built in, the OWI SmartCore will help stabilize the propellers on the Turboprop, Drone and Hovercraft to keep the airborne models in flight. With the land vehicles, the OWI SmartCore keeps Gyrobot vertical with active balancing technology, allows Trike to cruise at high speeds while maintaining control, and turns Tank into a roving explorer. Best of all, the OWI SmartCore automatically pairs with the remote control, so operation is impeccable. With a built-in quick charging LiPo battery and USB charging cable included, recharging **SmartCore 6** is effortless. The only question left to ask is which **SmartCore 6** vehicle will you build first?

Assembled Dimensions: Turboprop: 12" x 14" x 3.75"
 Battery: AAA x 2 (not included); No. of pieces: 44 pcs.



KikoRobot.962

OWI-962



At first glance, **KikoRobot.962** offers a distinct resemblance to the award-winning KIKO.893. But, upon further evaluation, one cannot help but notice KikoRobot.962 is the bigger, faster, stronger version of the little yellow robot from 2018. **KikoRobot.962** comes equipped with the same I/R (infrared) and AI (artificial intelligence) technology that made the older version a fan favorite. Aside from that similarity, the two robots are a stark comparison. **KikoRobot. 962** features an improved gearbox and a new eight leg design, allowing the robot to reach higher speeds as it comically scurries around in both follow-me and explore mode, quickly leaving KIKO.893 in the dust. Boys and girls will love having a friendly robot companion pursue their every move, or complete handmade obstacles with ease. Parents will look on with glee as their budding engineers' ages 8+ complete this 192 piece STEAM kit and will be satisfied knowing that this playtime is both educational, and more importantly, fun!

AGES
8+



Specifications: Battery: "AAA" size battery x 4 (not included).
Dimensions: 5.31" L x 5.12" W x 7.09" H;
No. of pieces: 192 pcs.

Curiosity fuels creativity! This robot from OWI is ready to go on an adventure right out of the box. Batteries are included, and the robot is pre-assembled. With **Scrib** there are three fun ways to play: Maze Race, Free Style, and S.T.E.A.M Idea and Activity Book. Who will be the one to unlock **Scrib's** potential? The most challenging aspect is Maze Race. Children construct a 70-piece puzzle/board game that develops physical, cognitive, emotional, gross motor, and fine motor skills. After completing the puzzle, the user must strategize how to keep **Scrib** on track and avoid falling into traps or endless loops. Once the child masters the game, the challenge is

SCRIB



AGES 3+

SCRIB
OWI-44110



on... family, friends, the neighborhood, the nation. Who will get **Scrib** to the finish line the fastest? Let's get creative in Free Style play. Users take **Scrib's** magic marker to plain white paper and challenge **Scrib** to conquer hand drawn mazes, navigate homespun maps, or travel across super highways made by connecting multiple sheets of paper. Children will learn S.T.E.A.M principals while they have fun. More? You bet. The S.T.E.A.M Idea and Activity Book is filled with ideas and activities that will keep children busy for hours. Offline coding activities will teach users the basic principles of metacognition, abstract thinking, and problem-solving.

Assembled Dimensions: Scrib: 2.36"x1.77"x3.15",
puzzle: 28" x19"x0.625"
Battery: 1.5 V button batteries AG13 /LR44 x 4 (Included)
No. of pieces: 70 pcs.



Mini SOLAR KIT



AGES 8+

OWI's farm system has cultivated yet another possible Rookie of the Year prospect. **Rookie Solar Racer V3** is the latest version of the successful line of Rookie Solar Racers. The modernized variant possesses all the qualities of a five-tool player: strength, power, speed, building, and cost-effectiveness. Strength - supported by a durable plastic frame that features a transparent and rugged SUV-like body design. Power -harnessed by the most powerful and efficient source of energy... the sun. The photovoltaic cell (solar panel) converts

ROOKIE SOLAR RACER V3
OWI-SLK173



the sun's energy directly into electrical energy. Speed - backed by a lightweight design, possesses surprising quickness with a catch me if you can attitude. Building the (2.83-inch x 1.25-inch x 1.42-inch) kit is ideal for a do-it-yourself science fair, after-school, or summer workshop project with the bonus gift of learning how automotive transmission and motors work. A vital cog in the development of a child's mind; experts believe that the retention of a child's learning experience is multiplied if they can coordinate reading with actual hands-on experience. **The Rookie Solar Racer V3** includes a full curriculum, complete with quiz questions, answers, and fun activities built into the manual, enhancing the educational value of the kit. Cost-effectiveness - like all Rookies, they are affordable alternatives to other high-priced players. **The Rookie Solar Racer V3** is the least expensive mini solar kit in OWI's award-winning line. With only 17 assembly parts, it is the perfect beginner kit for children ages 8 and up. Dimensions: 2.83" L x 1.25" W x 1.42" H; No. of pieces: 17 pcs.

Mini SOLAR KIT

AGES 8+



The dual powered **Solar/Battery Top Fuel Dragster's** long powerful dragster like frame is 8"x3"x 3.25". Ages 8+ enjoy the challenge of building their very own dragster, and once the (30-piece) assembly is complete, they will have the option of racing their friends both indoors and outdoors! The **Solar/Battery Top Fuel Dragster** features a double XL solar panel that is strong enough to power the large frame on a sunny day. Run out of daylight, or it's not sunny outside? No problem! Switch the power source of the **Solar/Battery Top Fuel Dragster** to the single AA battery compartment (battery not included), and the fun will not have to end. We envision "Blue Ribbon" capabilities at your next Science Fair!

Specifications: Battery: AA x 1 (not included) [not required when using solar panel]

Dimensions: 8.25" L x 3.25" W x 3" H; No. of pieces: 54 pcs.



X IN 1 RENEWABLE ENERGY KIT

OWI-MSK36524



With **X in 1 Renewable Energy Kit** (X meaning 10), scholarly children will construct ginormous kits with child friendly parts that function indoors with use of a Hand Generator, outdoors with the use of the XL Solar Panel, and indoors and outdoors with the Wind Powered LED. Developing manual dexterity and building confidence has never been this fun. Young students will learn three separate renewable energy concepts: Hand Generator power, Solar power, Wind power, and explore the ten animated building options provided in **X in 1 Renewable Energy Kit**. The fun will go on and on as children build five different vehicles (Energy Racer, Scientific GoGo, Robotic Ride, Space Explorer, Helicopter), three dinosaurs (Triceratops, Stegosaurus, Apatosaurus), and two windmills (Space Fan, Wind Powered LED). Children ages eight and up will utilize the colored instruction manual and over 115 pieces to build ten exciting models.

Dimensions: Dino - 9.45" L x 7.48" W x 5.31" H

No. of pieces: 115 pcs.



AGES 8+



SOLAR WILD BOAR (Limited Quantity)

OWI-MSK682



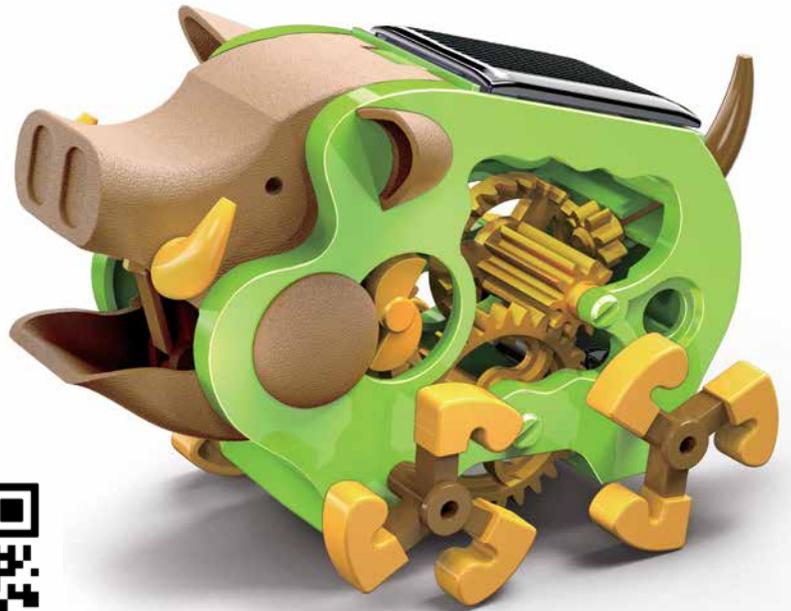
In rural settings, people are urged not to leave rubbish to easy access of wild boars, but OWI's *Solar Wild Boar* is a fun-loving solar kit that smiles as it klippy-klocks around any mess. Building the 3.56 inch x 1.85 inch x 2.24 inch plus size figure, it is ideal for a do-it-yourself science fair, after-school, or summer workshop project with the bonus gift of learning mechanical transmission and electrical motor theory. Experts believe that the retention of child's learning experience is multiplied if they can coordinate reading with actual hands on experience. With only 47 assembly parts, it's a wonderful instrument for the beginner enthusiast 8 years and up, and a gateway to ignite opportunities in fun learning.

The *Solar Wild Boar's* appetite comes to life on sunny days making it the perfect outdoor companion.

AGES 8+

Specifications:

Solar Panel Output:75mA ; Assembled Size L3.56"xW1.85"xH2.24"; No. of pieces: 47 pcs.



GREEN LIFE (Limited Quantity)

OWI-MSK690



Change...most people find it difficult because of their set routines and mundane ways. Thankfully, children are our future and they are more amenable to change. Give them the opportunity to learn and experience alternative sources of energy to help create a greener future. Kids can build an eco-friendly and *Green Life* future. They can see the benefits of putting solar energy to work and discover how solar cells generate electricity from light. The kit consists of a powerful solar cell, rechargeable battery (included), house, and car. It is easy to assemble: no screws,nuts, or fuss. Just simply plug-in the car into the house, solar energy converts into electric power for storage and application. On a sunny day, charging is complete in 3 minutes. Run time is fun time. Once released from the house, the car will venture and explore for you for three minutes. **AGES 8+**

Specifications:

Solar Panel Output: 75mA; ; Assembled Size: Green Life: 5" x 2" x 3"; No. of pieces: 39 pcs.



PENGUIN LIFE

OWI-MSK691



Can penguins fly? You are correct! They have wings but are used as flippers for swimming underwater and leaping across the top of waves. Do penguins live in igloos? You are brilliant! But guess what? Our penguin has a special connection to an igloo. That's right, kids can build an igloo for their penguin, utilize their natural resource (the sun), and watch their waddling friend bring a smile to everyone's face. This is a wonderful introduction to OWI's newest series: Plug-in. Kids can build an eco-friendly penguin habitat. They can see the benefits of putting solar energy to work and discover how solar cells generate electricity from light. *Penguin Life* consists of a powerful solar cell, rechargeable battery (included), igloo, and penguin. It is easy to assemble: no screws, nuts, or fuss. Just simply plug-in the penguin into the igloo, solar energy converts into electric power for storage and application. On a sunny day, charging is complete in 3 minutes. Run time is fun time. Once released from the igloo, the penguin will venture and waddle for you for approximately three minutes. Because you answered the first two questions correctly, you probably know that this particular penguin does not leap across the top of waves or swim in the water. **AGES 8+**

Specifications:

Solar Panel Output: 75mA;; No. of pieces: 39 pcs.

SCIENCE KITS

pump me to make it

ROOOAAARRR



AGES 8+

AIR POWER RACER V2

OWI-SLK020



Air Power Racer V2 is ready to hit the streets! This 15-piece kit will provide hours of fun as its loud engine roooaarzzzz up and down race tracks designed by children ages six and up. Like the original, the *Air Power Racer V2* also runs on compressed air, but one fundamental change made in the lab was the removal of the onboard air pumping device. With this bulky equipment removed from the body, our scientists were able to reduce the weight of the vehicle more than 66%! One may ponder, "why make the vehicle lighter?"... For speed, of course! With the lighter frame and aerodynamics inspired by rocket cars, the *Air Power Racer V2* can achieve speeds up to 42% faster than the original all while using the same free fuel... Air. Not only did OWI's team of scientists make improvements to the *Air Power Racer V2*'s performance, they also improved the price tag, reducing the suggested retail price OVER 28%! Take a bow OWI scientists; you've outdone yourselves.

Dimensions: 14.25"x 3.25" x 7" ; No. of pieces: 15 pcs.

VROOM! STEM V8 MODEL COMBUSTION ENGINE

OWI-39102



AGES 12+



VROOM VROOM! For over one-hundred years the V8 combustion engine has been a part of the rich history of the American automotive industry. With *Vroom! Stem V8 Model Combustion Engine* budding car enthusiasts, ages twelve and up, will have the opportunity to understand the heart of the automobile. With over 270 pieces, *Vroom! Stem V8 Model Combustion Engine*, both children and parents alike will be amazed by the realistic engine simulation. After enhancing one's divergent thinking, manual dexterity, and gratifying sense of accomplishment, *Vroom! Stem V8 Model Combustion Engine* will be the prize trophy on any car lover's desk, shelf, or classroom. With a simple press of the power button, prepare to be amazed. The cooling fan spins, pistons fire up and down, light bulbs flick on and off in perfect sequence mimicking the air-fuel combustion process, and since it runs on three AA batteries (not included) there is no need to worry about pricy gasoline to enjoy the show. In addition to the mechanical skills acquired through building, *Vroom! Stem V8 Model Combustion Engine* also includes a detailed introduction in the instruction manual. By reading, children will recognize the difference between an electric motor vs. the powerful V8, and learn about different types of combustion engines. Lastly, the introduction delves into the four stroke cycle through a visual representation of the four steps (Intake, Compression, Power, and Exhaust). Once children build the kit, and read the introduction they will have a full grasp of the science, engineering, and physics that go into this automotive cornerstone. It is never too early for your young mechanic to start learning how a real V8 combustion engine works. Did we mention it goes VROOM?!?!

Assembled Dimensions: 11.02"x7.48"x7.28"

Battery: AA x 3 (Not Included); No. of pieces: 270 pcs.

KINETIC RACER

OWI-SLK144

Create and store energy with OWI's **Kinetic Racer**. This 14-piece kit requires zero batteries, and is the perfect tool to teach sustainable energy, while also providing sustainable fun! Boys and Girls ages eight and up will be able to experiment with a pre-assembled hand crank generator and demonstrate how kinetic energy is converted into electrical energy. Detailed lesson plans, with the use of the generator, light-emitting diode (LED), and Miniature Bulb, will have children amazed as they witness the energy they generated, illuminate almost magically. Once the energy conversion principle is established, knowledge-hungry students will connect the hand power generator to the **Kinetic Racer** with a capacitor and experiment on how energy can be stored and discharged. Scholarly children will be able to test preconceived hypotheses on how much energy is stored with 30 turns, 60 turns, even 100 turns of the hand-powered generator! This trial and error-based learning will free up the minds of children and allow them to discover and explore physics and math without the fear of failure. The **Kinetic Racer** is much more than a hands-on training tool. The instruction manual includes a full curriculum, complete with test questions, answers, and fun activities to extend the play value of the **Kinetic Racer**. Producing energy, storing energy, and using energy without the use of batteries makes for a great science and learning kit.

Dimensions: 4.5" L x 2.5" W x 1.5" H ; No. of pieces: 14 pcs.



AGES 8+

100 IN 1 STEM LAB
OWI-38917

With 100 STEM experiments in one box, OWI is redefining value! **100 in 1 Stem Lab** will teach children how the world around them connects. Young scholars, ages eight and up, will learn about basic circuit connections as they construct four initial units (Maze Challenge, Flying Disc, Turbo Air, and Alarm System). Maze challenge allows children to build a carnival classic hand eye coordination game where a metal loop is maneuvered around a metal wire without making contact; difficulty of the wire can be adjusted. Flying Disc allows children to launch a disc spinning into the air. By using the auxiliary pieces designed for Turbo Air children will use the air flow to create a bubble machine (bubble solution not included), vacuum cleaner, or a floating foam ball! Alarm system lets children build a functioning spinning LED light with a loud beeping audio display. Don't worry parents, if the audio wires are disconnected the LED light will spin without the alerting noise. Knowledge will expand exponentially as connections are made, and children will see their confidence soar as they transform wires, springs, and plastic parts into fully functioning electrical circuits. Comprehending a schematic diagram is a must for future electrical engineers. **100 in 1 Stem Lab** colored manual associates every component with a symbol. Once children become familiar with the symbols, they will be able to



AGES 8+

look at the schematic diagrams provided (over 100) and figure out how to build the circuit, as well as interpret the flow of electricity. Children can take this a step further by designing their own diagrams that compound up to three box bases together. Once their diagram is complete, hypotheses can be tested by building the circuit they created (for two in one and three in one connection simply use the connecting bridges to connect box bases together). Unlike other toys that are sent to the shelf once outgrown, never to be played with again, **100 in 1 STEM Lab** will develop with children, continuing to entertain and challenge them for years!

Assembled Dims: 16.53"x5.5"x6.3"; Battery: AA x 6 (Not Included) ; No. of pieces: 49 pcs.

ALUMINUM RHINO BEETLE KIT



AGES 10+

**RHINO
BEETLE
OWI-353**

Insects are everywhere and outnumber humans by about 100,000,000 to one. OWI's aluminum **Rhino Beetle** allows you to get up close and personal with less of the icky reaction. This kit contains 26 hard and soft pre-punched aluminum parts, 4 screws, 4 nuts and 7 metal springs and is perfect for the budding entomologists (scientists who study bugs). ; No. of pieces: 41 pcs.



ACCESSORIES:



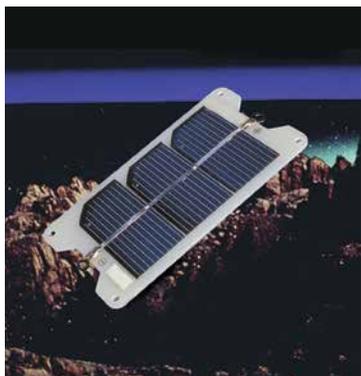
OWI-535 AND OWI-537 ACTIVITIES AND EXPERIMENTS CURRICULUM

EXP-535



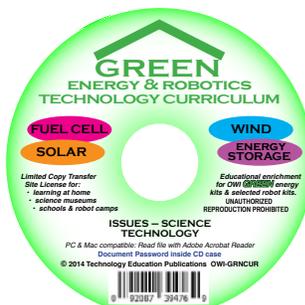
OWI-535 and OWI-537 Activities and Experiments Curriculum provides multiple step-by-step activities and experiments for the *Robotic Arm Edge* and *Robotic Arm Edge-Wireless* robots in both manual and computer control modes. Students are challenged to measure and record robot specifications, perform experiments, solve problems, record data, reflect about their activities and answer questions in each robot lab activity. Using the site license that comes with the product, directions may be read off a computer screen or made into printed masters and copies. This curriculum when combined with the *Robotic Arm Edge* or *Robotic Arm Edge - Wireless* creates numerous and flexible educational opportunities for students. Answer keys provided. This is a flexible robotics curriculum for individual student use, home schools, science museums, and schools. CD is Mac and PC compatible

SOLAR BATTERY OWI-608



The **Solar Battery** is comprised of a number of photo voltaic cells. Each cell is made from a slab of semiconductor crystal. When light shines on the cell voltage is produced that can create an electrical current in a circuit. The greater the light intensity on the solar battery the greater is the current it can produce. Intended for use to familiarize students and/or hobbyists with functional solar cell principles, and practical

GREEN TECHNOLOGIES & ROBOTICS CURRICULUM - OWI-GRNCUR



GREEN TECHNOLOGIES & ROBOTICS CURRICULUM is another first from OWI! Green and robotic critical technologies make for a winning combination that will become increasingly important in the future and OWI is leading the educational experience for children in the form of computer self-instructive learning! The interactive educational

CD is designed to stimulate young minds to explore emerging and established green environmental and robotics sciences and technologies. Give your youngster an OWI edge: prepare now for green technology related jobs of the 21st Century by supplementing OWI solar, fuel cell, rechargeable battery, and wind powered robot kit building with relevant science and technology knowledge. The CD is Mac and PC compatible and explains how a variety of renewable and alternate energies work! It gets even better with self-paced instruction on how robots work including activities and experiments for selected OWI traditional battery operated robots including: Hyper Peppy, Jungle Robot, Moonwalker II, and Binary Player. Flexibly suited for supervised or self-instruction at home or school and complete with tests and answer keys. **AGES 10+**



applications of solar cells. Mounting bracket not included. Safe, simple-to-use encapsulated mini-panel. Sturdy panel will endure handling without the breakage and cell damage traditionally associated with solar cells. Create various experiments by exposing and positioning the panel to the energy source. This powerful solar battery features 3 cells in a sleek, low-profile protective housing with mounting holes. Positive and negative terminals are indicated to take the guesswork out of installation. Lead wires are included.



Dims: 5"x2.5"; Current: 350 mA ; Voltage: 1.4

ABOUT US

OVER FOUR DECADES, OWI HAS BROUGHT OUT THE AMAZING TALENT IN ALL OF US WITH PLAYFUL IMPORTANCE OF CONSTRUCTION TOYS, STEM, EDUCATIONAL, AND ROBOTICS KITS. THANK YOU FOR CHOOSING OWI AND ALLOWING US TO IGNITE IMAGINATION.

