PLAY STEM®

PLAYSTEM·COM

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Illinois 61822.

·play·read·inspire

PLAYSTEM™ CATALOG

NEW

PLAY STEM®

PLAYSTEM·COM

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PLAYSTEM®

PLAYSTEM·COM

Read to be inspired!

Established in the UK in 2017, PlaySTEM provides outstanding-design and high-quality educational products with the purpose of helping children Play in a scientific way, Read the learning booklet and get Inspired.

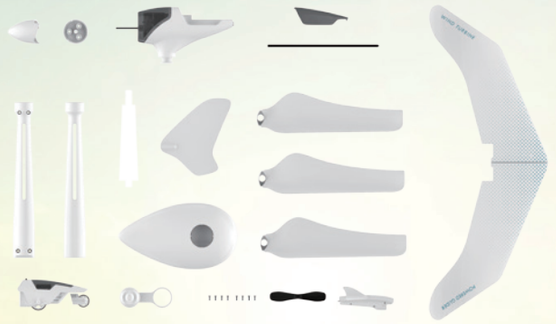
In order to design products that bring children fun and arouse their curiosity, our designers from the UK, Hong Kong, France, come up with a variety of products concepts involving science, technology, engineering, mathematics and art.

ages	Item number	Packing size
8+	XP03701	340x225x75mm

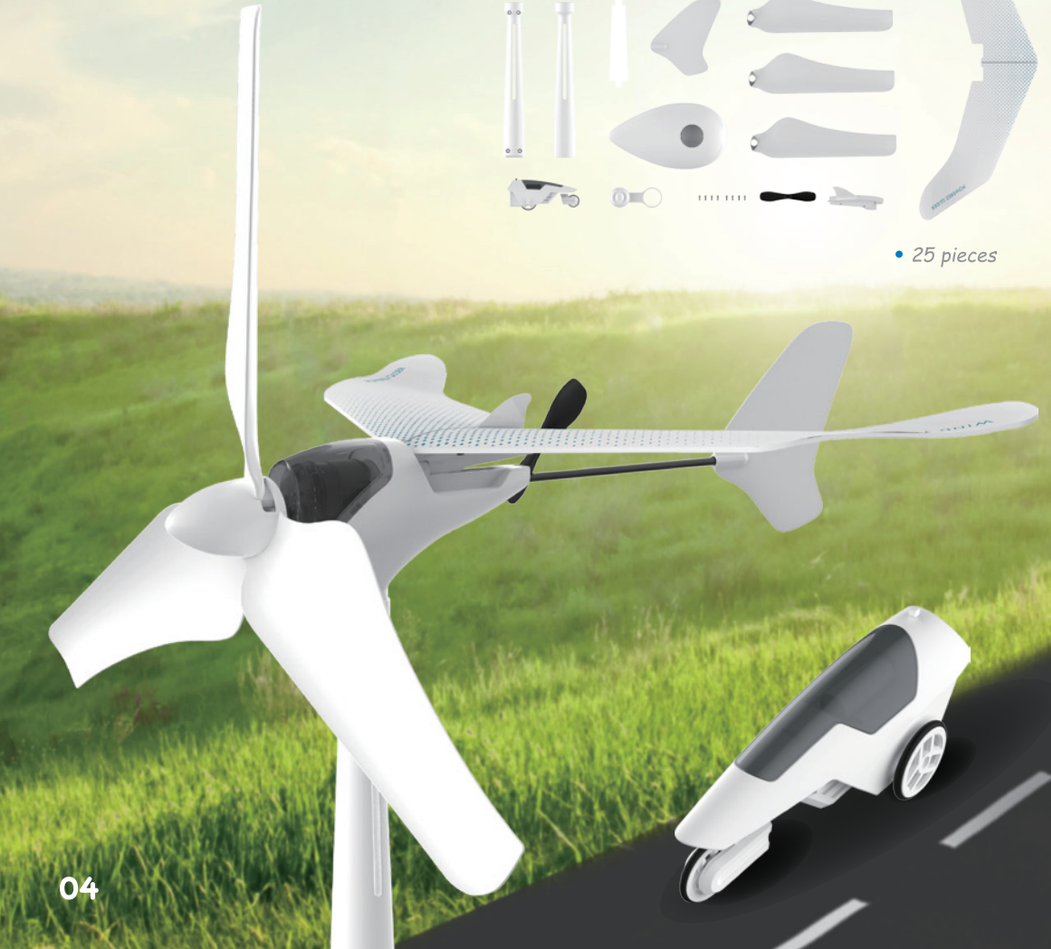
NEW

WIND TURBINE SCIENCE PROJECTS SET

Learn about green energy! Assemble your own wind turbine and generate electricity from the wind to power your own electric motor glider and electric car. A hand crank is included for indoor use or when recharging the glider or car during calm days. Included Learning Booklet provides fun learning activities as well as instructions.



- 25 pieces

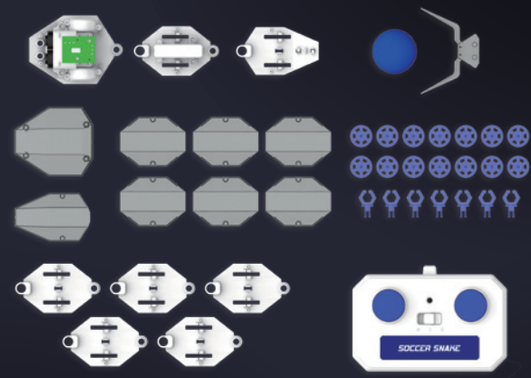


ages	Item number	Packing size
8+	XP00901	340x225x75mm

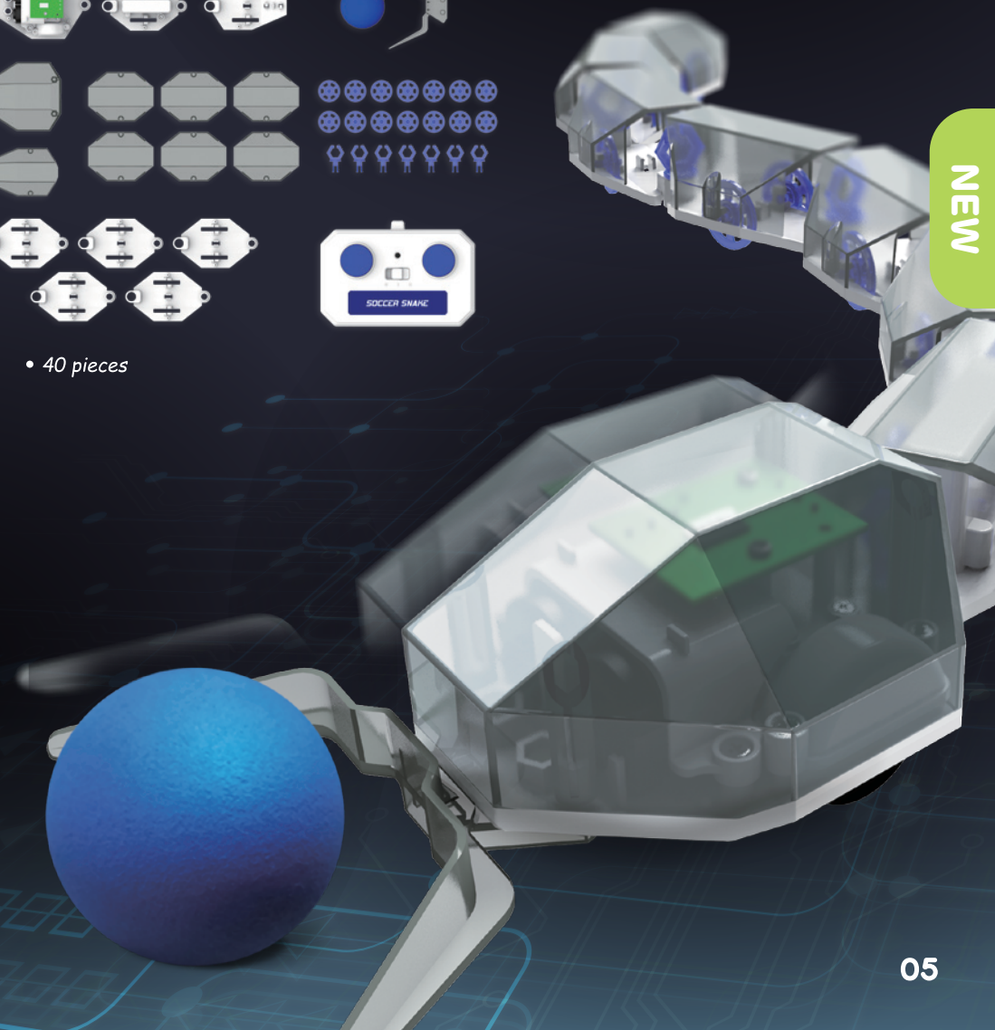
NEW

RC ROBOT SNAKE

Assemble a robotic snake to create a bio-inspired machine that emulates the unique snake-like locomotion found in nature. Use the wireless controller and take on the challenge of scoring a goal with the included mini soccer ball. Included Learning Booklet provides fun learning activities as well as instructions.



- 40 pieces



NEW

NEW

ages	Item number	Packing size
8+	XP03801	225X225X70mm

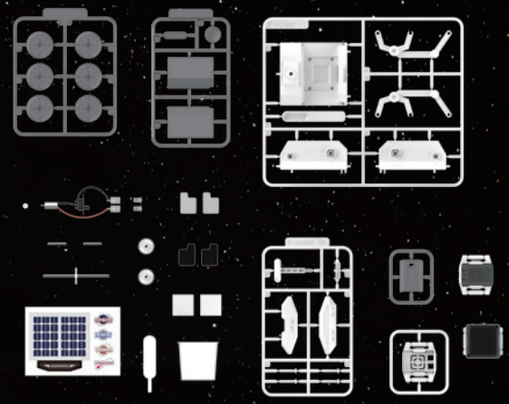
TRIPLE POWER SPACE ROVER

Build your own space rover and learn about three different ways to generate energy when on the moon or another planet! Motorized rover is powered by three different energy sources: safe chemical battery, solar energy and battery power. Learn about real planetary rovers and how they work. Included Learning Booklet provides fun learning activities as well as instructions.

Chemical

Solar

Battery



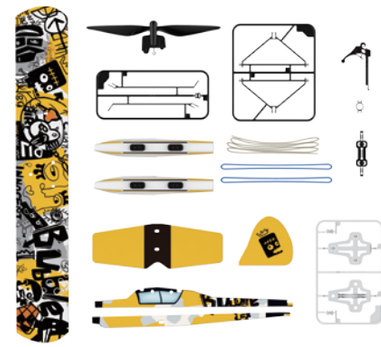
• 45 pieces

NEW

ages	Item number	Packing size
14+	XP04203	340x225x75mm

RUBBER BAND AEROPLANE SCIENCE 3 IN 1

Vintage rubber band aeroplane models with modern graffiti design. The set includes a seaplane, a low-wing plane and a electric rubber band winder. Easy snap assembly, wind and take off! Learn about aerodynamics.



• 40 pieces

VOYAGER

2.4G RC Motor Powered Sailboat

- Includes detachable electric motor for fun sailing indoors or when there is no wind.
- 3 channel control. Transmitter controls the sail angle, the water rudder and the motor.
- Equipped with 2 9-gram servos, 3.7V 150mAh Li-Po battery. Li-Po battery charger is built into the transmitter.

ages 14+

Item number	Name	Scale	Product Size	Packing size
XB05001A (red) XB05001B (blue)	VOYAGER 280 Motor Powered	1/43	280*85*445mm 11*3.3*17.5 in	313*110*483mm 12.3*4.3*19in
XB05002A (red) XB05002B (blue)	VOYAGER 400 Motor Powered	1/30	400*100*672mm 15.8*4*26.5 in	428*120*700mm 16.9*4.9*27.6 in

* See pages 36~37 for non-motorized VOYAGER 280 and 400

SKY CUB

2.4GHz RC Plane

ages 14+ | Package: 28.3" x 12.2" x 6.2"

Item number: XA04701A

- Wingspan 21 inches
- Flight Battery 3.7V 1S 150mAh LiPo Battery (included)
- Magnetic adaptive wing
- Light weight foam construction
- Easy to fly for beginners
- 99% completed, charge and fly
- Controller with battery charging port

DURABLE

The wing automatically detaches in crash

NEW

reddot award 2019
winner

ages	Item number	Packing size
8+	XP00301	225X225X70mm

WIND POWERED MOTOR GLIDER

The world's first wind-powered motor glider. Assemble your own Wind Turbine. Learn how to convert wind into electricity to light up an LED and power your Motor Glider!

• 23 pieces

ages	Item number	Packing size
8+	XP00101	225X225X70mm

THE SPACE WEATHER STATION

The All-in-One Weather learning kit, complete with Water Cycle Simulation. Great for decorating your home!

• 28 pieces

ages	Item number	Packing size
8+	XP00201	225X225X70mm

PLANT MAZE BOTANY KIT SET

Be a little Botanist! Observe root and leaf growth. Learn about Geotropism and Phototropism.

• 24 pieces

HOME

ages	Item number	Packing size
8+	XP00401	225X225X70mm

WATER POWERED ROCKET SCIENCE KIT SET

Includes everything you need to play and learn about the Water Rocket: a rocket, launch platform, a pump, and a detailed instruction booklet. The rocket can fly up to 30 meters high.

• 18 pieces

ages	Item number	Packing size
6+	XP03601	225X225X70mm

MY FIRST WATER ROCKET

Be a rocket scientist and launch your first water rocket. It's very easy to assemble as it does not require any tools or glue. Just pump it up and when the pressure is topped off, it launches. Learn about rocket thrust and experiment with different combinations of water and air to see how high it will fly!

• 13 pieces

ages	Item number	Packing size
8+	XP00801	225X225X70mm

ATMOSPHERIC TURBO RACER

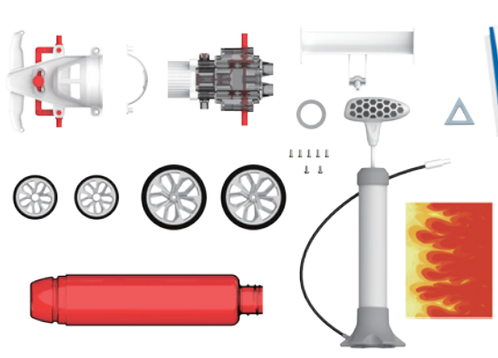
No battery required! Build your own air-powered racer. it's an All-in-One science learning kit about Atmospheric Pressure.

• 19 pieces

ages	Item number	Packing size
8+	XP00803	225X225X70mm

ATMOSPHERIC INFERNO TURBO RACER

Join the race with the air powered Turbo Racer. Learn about pressure and engineering with this really fun science kit. Does not require battery, fully air pressure powered. Assemble, pump it up and let it GO!

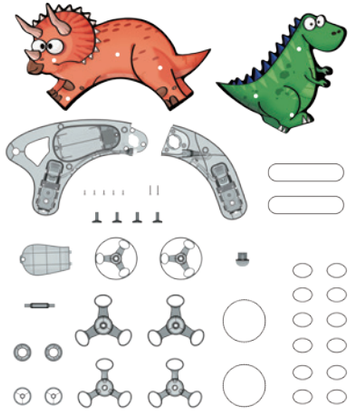


• 20 pieces

ages	Item number	Packing size
8+	XP03101A	225X225X70mm

CLIMBING DINOS TRICERATOPS & T-REX

Build your Triceratops and watch him climb. The three-headed front wheels help it climb across almost any household obstacle. Change it to a T-Rex and watch it hop around the house.

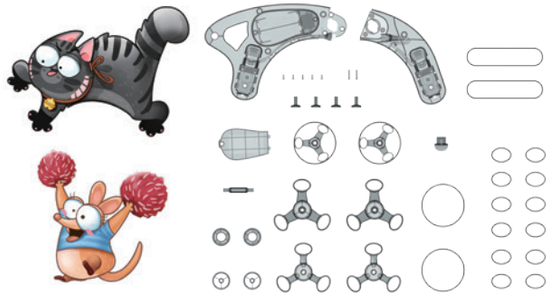


• 44 pieces

ages	Item number	Packing size
8+	XP03101	225X225X70mm

CLIMBING CAT & HOPPING MOUSE

Build the most agile climbing cat. Its special three-headed wheels allow it to cross over any obstacle. Change it to a mouse and let it parade in the house.



• 44 pieces

ages	Item number	Packing size
8+	XP00501	225X225X70mm

TILLYWIG TOY AWARDS BRAIN CHILD AWARD WINNER

ARTS ROBOT SPIRAL FACTORY

Build your own Arts Robot Factory. Recycle and hire a Tin Can to be your factory worker. Instruct it to create various spiral works of art for a museum. Comes with bundles of cards.

• 34 pieces

HOME

ages	Item number	Packing size
8+	XP00603	225X225X70mm

BIONIC ROBOT SOCCER SNAKE

Assemble a wire-controlled robotic snake with two speeds. It is both fast and agile! Control your robotic snake and become the best soccer player of all! Goal!

• 40 pieces

ages	Item number	Packing size
8+	XP01901	225X225X70mm

AERO SCIENCE COMBO SET

Includes five flying machine sets:
Chemical Rocket, Egg Parachute, Green Flying Stick, Hula Loop Plane, Rubberband Helicopter.

Each flying machine set has specially designed instruction cards to encourage kids of all ages to let their imaginations fly far and high as they share in the joy of learning more about aeronautics.

• *76 pieces*

ages	Item number	Packing size
8+	XP01104	225X225X70mm

AIR ROCKET CHALLENGE

Load your rocket and challenge a set of targets from anywhere, compete with your best mate to see who the best sniper is. Learn about thrust and rocket trajectory, Time for target practice, THREE-TWO-ONE, FIRE!

• *43 pieces*

ages	Item number	Packing size
8+	XP00701	225X225X70mm

BIONIC ROBOT FROGZILLA

Build your own little green frog with specially designed blade shaped robotic legs. Try it on different terrains and it will hop and turnover. What a naughty green frog! Glug, Glug!

• *29 pieces*

ages	Item number	Packing size
8+	XP01401	225X225X70mm

INVENTION PATENT

3D GALAXY PROJECTOR

PCT/CN2019/075169

Completely Glass Free! Project the Galaxy on the wall. Twist and rotate to observe the planets in 3D. Learn about the origin of the Solar System.

• *14 pieces*

ages	Item number	Packing size
8+	XP02001	225X225X70mm

LINE TRACKING SIGHTSEEING BUS

Build your own city tour bus. Customize your sightseeing route. Learn about the world's most famous landmarks. Drive safe and the red bus goes around.

- *14 pieces*

ages	Item number	Packing size
3+	XP01803	225X225X70mm

KONG CALCULATOR

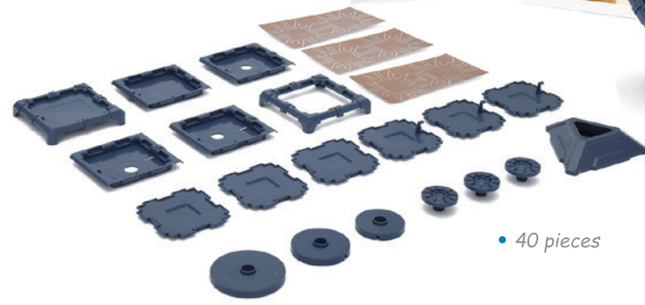
Learn mathematics while having fun with the Kong. Pick up question cards and count with bananas, then ask the Kong to check the answer. Ho-Ho the Kong is so smart!

- *12 pieces*

ages	Item number	Packing size
8+	XP02102	225X225X70mm

TRIPLE SAFE CUBE

A secret magic box you will be the only one who knows how to open. With fake openings to confuse anyone who would dare to try and a ten digit combination lock, your secret is safely kept.



- *40 pieces*

ages	Item number	Packing size
8+	XP02201	225X225X70mm

PATTERN SECRET LOCKER

An ultimate secret locker protected by sliding password. No battery required. Define your own password pattern and keep your secret safe. It can be any pattern you can think of.

- *34 pieces*

MODERN SERIES

RUBBER BAND AEROPLANE SCIENCE

Assemble and fly your own airplane model and learn about aeronautics. Select from four distinct aircraft designs, each featuring bold graffiti graphics.

Name	Item number	Packing size	Age
Biplane	XP04201A	225x225x55mm	14+
Seaplane	XP04201B		
High Wing	XP04201C		
Low Wing	XP04201D		

Biplane

Low Wing

High Wing

Seaplane

CLASSIC SERIES

RUBBER BAND AEROPLANE SCIENCE

Classic Series offers 4 different vintage aircraft models in 4 distinct categories: high wing, low wing, seaplane, and bi-plane. You'll want to build them all because they all fly great!

Name	Item number	Packing size	Age
Sopwith Camel	XP04202A	225x225x55mm	14+
DHC-2 Beaver Seaplane	XP04202B		
J-3 Cub	XP04202C		
P-40 Warhawk	XP04202D		

J-3 Cub

P-40 Warhawk

Sopwith Camel

DHC-2 Beaver Seaplane

Love the Ocean

Recycle and Make × *"be the blue advocate"*

"Love the Ocean" series products present a new concept of engaging science toys dealing with one of the most important challenges of this century. Turning the ocean pollution concern into an interesting topic, it gives children the keys to explore possibilities of recycling while having fun.

OCEAN FRIENDS HAMMERHEAD SHARK & MANTA RAY

age 6+ | Item numbet XP02801A | Package size 225X225X70mm

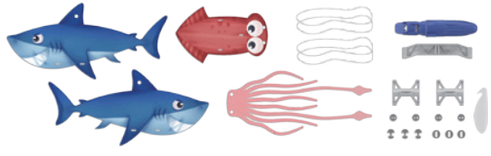
Recycle empty plastic bottles to make swimming ocean creatures and then learn about them. Attach your creature's body to the underwater motor unit to bring it to life. Make them all!

- 24 pieces
- Require AA Battery (X1)

OCEAN FRIENDS WHITE SHARK & SQUID

age 6+ | Item numbet XP02801B | Package size 225X225X70mm

Recycle empty plastic bottles to make swimming ocean creatures and then learn about them. Attach your creature's body to the propelling system to bring it to life. Make them all!



- 23 pieces
- Require AA Battery (X1)

OCEAN FRIENDS SEA TURTLE & CRAB

age 6+ | Item numbet XP02701B | Package size 225X225X70mm

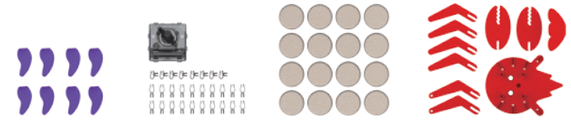
Assemble recycled bottle caps with the Recyclips to make various marine animals and then learn about them. Bring them to life with their vibrating body. Make them all!

- 61 pieces
- Require AAA Battery (X1)

OCEAN FRIENDS LOBSTER & OCTOPUS

age 6+ | Item numbet XP02701A | Package size 225X225X70mm

Assemble recycled bottle caps with the Recyclips™ to make various marine animals and then learn about them. Bring them to life with their vibrating body. Make them all!



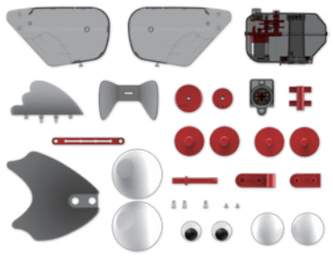
- 63 pieces
- Require AAA Battery (X1)

ROBOTIC FISH

Learn about fish swimming mechanism and BIONICS with the Robotic Fish. Assemble it, turn it "ON" and watch it swim like a real fish. Make and swim.

age 6+ | Item numbet XP02901 | Package size 225X225X70mm

TILLYWIG TOY AWARDS BRAIN CHILD AWARD WINNER

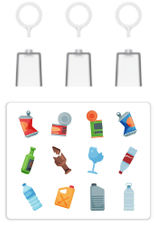


- 29 pieces
- Require AA Battery (X1)

OCEAN CLEANING SEAHORSE

It's the best science toy to learn about buoyancy. Play an interactive game to clean the Ocean. Comes with 10 beautiful postcards explaining Ocean conservation knowledge.

age 3+ | Item numbet XP01701A | Package size 150X210X70mm

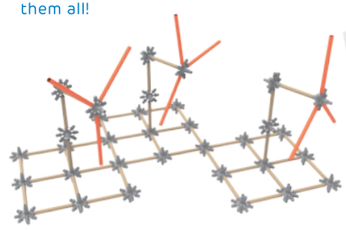


- 8 pieces

GREEN SEACOAST ARCHITECT

Use paper straws to build a green and eco-friendly seacoast with a lighthouse and offshore windmills. Understand the importance of plastic straw recycling and learn about seacoast infrastructures. Build them all!

age 6+ | Item numbet XP01601A | Package size 225X225X70mm



- 220 pieces

ToGo
Fun on the road

SCIENCE

Science to go series is a set of fun, meaningful and budget-friendly science toys.
Carefully designed with safety as a first concern, Science to go toys are aimed to spark children's interest in science.
Grab-and-Play to get inspired in a maximum of fun.
Grab them All!

ages **3+** | Packing size 110X200mm

Deep Diving Seahorse

Item number: XP01703

Learn about buoyancy with the diving sea horse. Squeeze the bottle to increase the pressure in it and make your seahorse dive to pick up seashells and sea-stars. How many of them can you pick up at once?

• *8 pieces*

ages **8+** | Packing size 110X200mm

Dancing Illusion

Item number: XP03401

Pick a pattern, attach it to the top, spin it and see what happens to the pattern, learn about physics and momentum, amazing!

• *8 pieces*

Arrow Copter

Item number: XP03201

Fire your Arrow Copter high in the sky, it will fall back spinning like a Helicopter. Watch the Copter spin and learn basic aerodynamics.

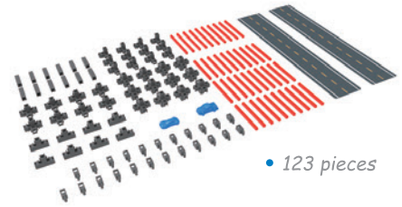
• *6 pieces*

ages **8+** | Packing size 135X190X20mm

Bridge Architect

Item number: XP03301

Build the bridge step by step as a real architect. You have probably noticed that most bridges, including yours, have slanted beams in the middle of the structure.



• *123 pieces*

ages
5+

Packing size
135X190X20mm

Band Powered Copter - Dinos

Item number: XP01203C

Wound your Copter up to store energy in the rubber band. Release it, the energy will transfer to the propeller to make it soar into the sky. Which of your little animal buddies will fly the highest?

- 20 pieces

Band Powered Copter - Dreams

Item number: XP01203B

Wound your Copter up to store energy in the rubber band. Release it, the energy will transfer to the propeller to make it soar into the sky. Which of your little animal buddies will fly the highest?

- 20 pieces

Band Powered Copter - Tales

Item number: XP01203A

Wound your Copter up to store energy in the rubber band. Release it, the energy will transfer to the propeller to make it soar into the sky. Which of your little animal buddies will fly the highest?

- 20 pieces

ages
8+

Packing size
135X190X20mm

Hula Loop Plane

Item number: XP01003

The Hula Loop Plane is designed to fly back to you in a perfect loop. Throw it gently, it will gently loop back. Throw it faster, it will quickly loop back in a smaller loop.

- 10 pieces

ages
8+

Packing size
135X190X40mm

Reaction Rocket

Item number: XP02501

Fill the rocket with baking soda and the launcher with vinegar. Position your rocket on the launcher, the chemical reaction between the soda and the vinegar will propel your rocket.

- 8 pieces

Magic Vision

Item number: XP03501

Pull the rope and let it go, the pictures will rotate and appear to blend into one. Learn about persistence of vision.

- 4 pieces

ages
5+

Packing size
150X210X55mm

Table Top Air Rocket

Item number: XP01103

Launch your rocket from anywhere even from Mars by turning the box into a Mars landscaped stage. Learn about rocket thrust and pressure, THREE-TWO-ONE- FIRE

- *10 pieces*

Green Powered Grand Prix

Item number: XP01503

Take part in the Grand Prix with your rubber band-powered car and find out the relation between potential and kinetic energy. Buckle your seat belt VROOOM!

- *12 pieces*

ages
8+

Packing size
150X210X55mm

Green Straw Architects

Item number: XP01603

Green straw architects teaches geometry through model building, allowing anyone to create structures using green paper straws and connecting joints. Awaken the architect within you!

- *135 pieces*

ACTIVE SERIES

Head outdoors to have fun with PlaySTEM Active Series science toys. Learn about alternative power when you play with our sailboats and solar boat or imitate the flight of birds with PlaySTEM ornithopters. Having fun while learning is the cornerstone of PlaySTEM design and culture.

Active Play Outdoors

ages 14+ | Item number XA01008 | Package: 3.5” x 11” x 0.5”

IRON BIRD RUBBER BAND POWERED ORNITHOPTER

- Rubber band power
- Listen and watch the wings flap
- Adjust the flying trajectory
- Perfect activity for indoors and outdoors

- Bamboo structure
- 25 pieces

ages 14+ | Item number XA08301 | Package: 4.5” x 9.5” x 1”

DARK WINGS RUBBER BAND POWERED ORNITHOPTER

- Carbon fiber structure
- 30 pieces

SunSeeker

SOLAR ROW BOAT KIT

Item number: XB01602

- Motorized with Solar or Battery Power
- Creative Working Mechanism
- Demonstrates Green Energy Power

Package: 11.75” x 7” x 2.5”
Optional: AA Batteries (x2)

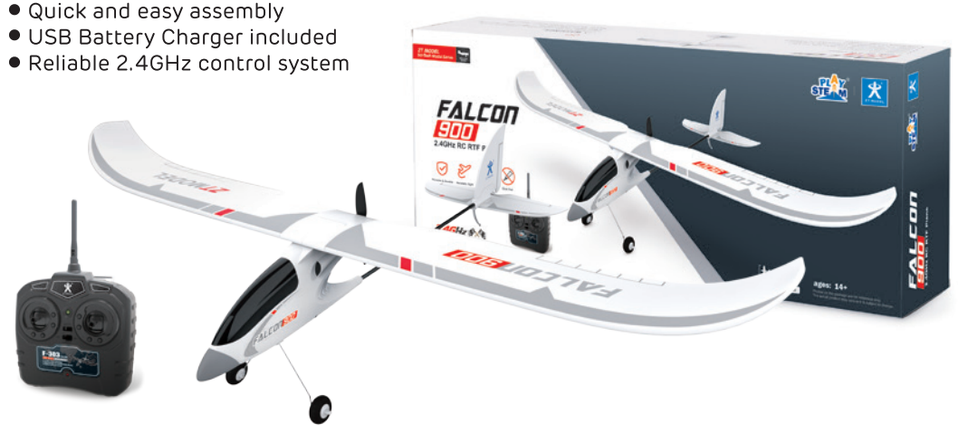
FALCON 900

ages 14+ | Package: 28.3” x 12.2” x 6.2”

Item number: XA02601

2.4GHz RC RTF Motor Glider

- Wingspan 35 inches
- Flight Battery 7.4V 2S 420mAh, 20C LiPo Battery (included)
- Durable foam construction
- Easy to fly for beginners
- Quick and easy assembly
- USB Battery Charger included
- Reliable 2.4GHz control system



Global Hawk

ages 14+ | Package: 32.8” x 14.5” x 9.6”

2.4GHz RC RTF Trainer with optional floats

Item number: XA08802A (Red)
Item number:XA08802B (Blue)

- Wingspan 48 inches
- Flight Battery 11.1V 3S 1800mAh, 25C LiPo Battery (included)
- 3 operational modes for Beginner, Advanced and Professional lets you fly to your capabilities
- 6-axis gyro system provides self-correcting performance for stable flight in Beginner mode
- Includes One Button Rescue, Throttle Lock and Low Voltage Protection
- Durable EPP foam construction
- Easy to assemble with pre-installed servos and linkages

280 VOYAGER

2.4GHz RC Sailboat

ages 14+ | Package: 12.5” x 19” x 4.25”

Item number: XB03401A (red)
Item number: XB03401B (blue)
Item number: XB03401C (green)

- Length 280mm (11 in), Width 85mm (3.3 in), Height 445mm (17.5 in), Scale: 1/43.
- 2-channel control. Transmitter controls the sail angle and the water rudder.
- Equipped with 2 9-gram servos, 3.7V 150mAh Li-Po battery. Li-Po battery charger is built into the transmitter.

- No assembly required
- Includes display stand
- Requires AA batteries (x4)

400 VOYAGER

2.4GHz RC Sailboat

ages 14+ | Package: 16.75” x 27.5” x 5”

Item number: XB03402A (red)
Item number: XB03402B (blue)

- Length 400mm (15.75 in), Width 100mm (4 in), Height 672mm (26.5 in), Scale: 1/30.
- 2-channel control. Transmitter controls the sail angle and the water rudder.
- Equipped with 2 9-gram servos, 3.7V 150mAh Li-Po battery. Li-Po battery charger is built into the transmitter.

- No assembly required
- Includes display stand
- Requires AA batteries (x4)