

PlaySTEM USA

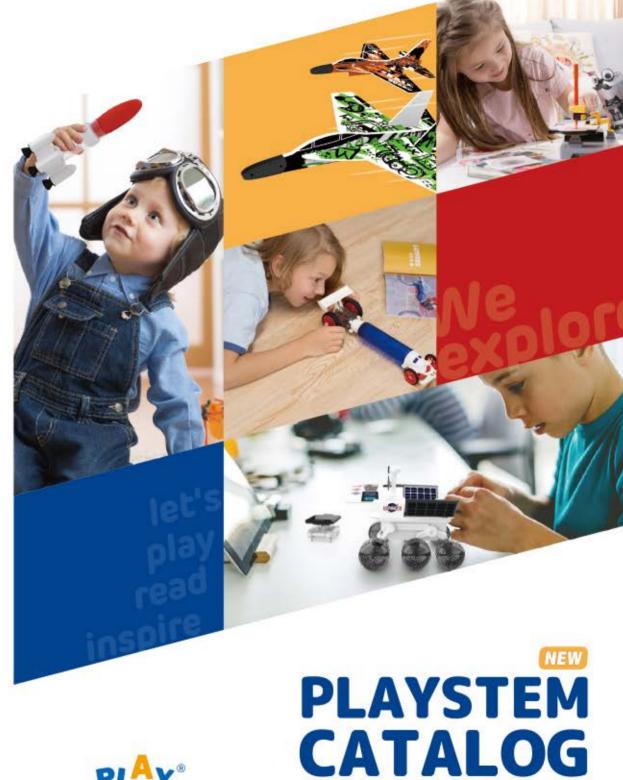
3002 Apollo Drive, Suite 10, Champaign, Illinois 61822 (1) 217-402-2040

PLAYSTEM EDUCATION

Suite 35-36 The Designworks, Park Parade, London, NW10 4HT

PLAYSTEM CHINA (ZT MODEL)

No. 6 Mingde Rd., Puyan, Binjiang, Hangzhou, China





WWW.PLAYSTEM.COM SALES@PLAYSTEM.COM









INDEX

New Products	3
Home Series	11
Aeroplane Science 2	22
Love The ocean 2	26
ToGo Science	31
Active Series	36
ZTF car Series 4	12







*The product information is subject to change.

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.



NEW ADVENTURE WITH PLAYSTEM



Packing size XP03701 340x225x75mm

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.







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.







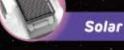




- · 40 pieces
- · 4 AAA batteries required.







Battery

Item number XP03801

Packing size 225X225X70mm

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.



- · 16 pieces
- 1 LR44/ AG13 button battery included.



Assemble two jet fighters and launch them by hand or slingshot! The airplanes are made from a special foam which is resistant to bending and breaking. The perfect treat for little aviators!



Item number XP04401

Packing size 225X225X50mn

F168F18











Packing size 225X225X50mm

FALCONSHORMET



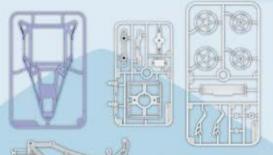




Packing size 225X225X70mm

DUAL POWER SOLAR RACER

Assemble your own eco-friendly and fun DIY car that uses the power of both solar and battery technology. With its dual power design, you can play with it no matter the weather, and explore the science behind solar energy in a hands-on way.



1 2 3 4 5 6 7 8

SOLAR

RACER

- 18 pieces
- 1 AA battery required



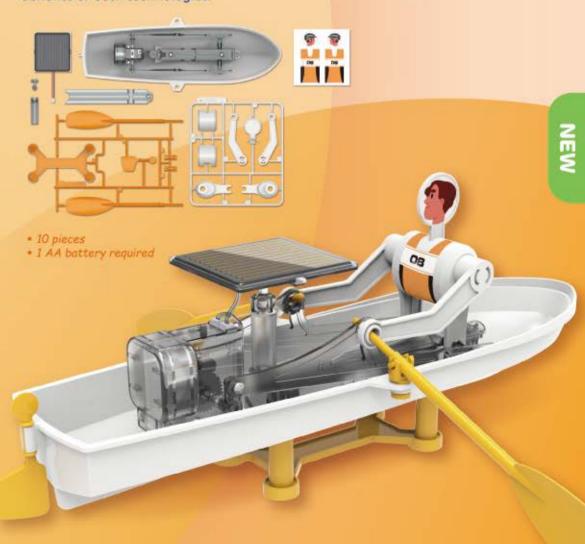
Item number

Packing size 340x225x75mm

DUAL POWER SOLAR ROWBOAT

Experience the simplicity of traditional rowboat design combined with the innovation of modern solar power in this unique DIY boat. With classic oar-powered propulsion and solar energy capabilities, you can enjoy a fun and educational experience while learning about the mechanics and benefits of both technologies.













The HOME series is designed to do more than just bring parents and kids together for fun – it's also about learning and exploring the world around us. Each toy in this series is carefully crafted to encourage scientific inquiry and discovery, while still being accessible and enjoyable for all ages.











Item number XP00301

Packing size 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







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



8+

ages 8+

Item number

XP00101

Item number

XP00201

Packing size 225X225X70mm

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



Packing size

225X225X70mm



12

Packing size 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.





Item number XP03601

Packing size 225X225X70mm



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!









Item number XP00803

Packing size 225X225X70mm

MOSPHERIC INFERNO

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!



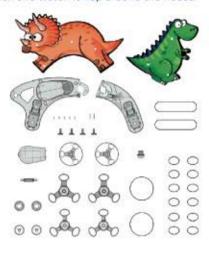
AMERICA -



Item number

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.





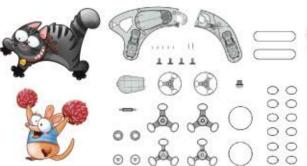
- · 44 pieces
- · 2 AA batteries required.

Item number XP03101

Packing size 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
- 2 AA batteries required.

-PIARO -



 34 pieces · 2 AA batteries required.

XP00603

Packing size 225X225X70mm

BIONIC ROBOT

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!



16

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.







ages 8+

Item number XP01104 Packing size 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!







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
- · 1 AA battery required.



Packing size PAVENTON 225X225X70mm

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
- 4 AAA batteries required.





21













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.





the world of aviation. Our planes will help you explore



14+

Item number

Packing size 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.

*The rubber band winder is also a standalone product.

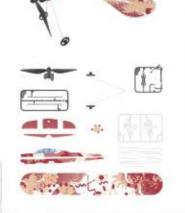
ages Item number

Packing size XPO4301 130x40x(190+25)mm











- · 40 pieces
- 2 AA batteries required.

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			
Seaplane	XP04201B	225X225X50mm	9.4	
High Wing	XP04201C	ZZJAZZJAJOHIII	14+	
Low Wing	XP04201D			



CLASSIC SERIES



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		
DHC-2 Beaver Seaplane	XP04202B	anewanewen	14+
J-3 Cub	XP04202C	225X225X50mm	10.00
P-40 Warhawk	XP04202D		



Sopwith Camel DHC-2 Beave Seaplane



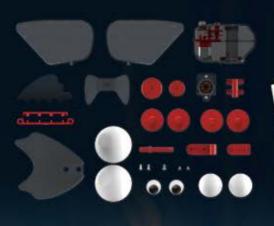
Love the Ocean

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.

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.



- 29 pieces
- 1 AA battery required.



Package size 225X225X70mm

CEAN





Item numbet Pockage size XPO2801A 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
- 1 AA battery required.

OCEAN FRIENDS WHITE SHARK & SQUID



Pockage size 225X225X70mm





- · 23 pieces
- 1 AA battery required.



OCEAN FRIENDS SEA TURTLE & CRAB



6+ XP02701B 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



Item numbet Package size
XPO2701A 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!









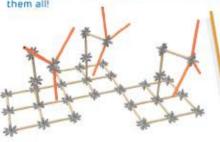


- · 63 pieces
- · 1 AAA battery required.





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





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.







XP01701A 150X210X70mm









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?

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!



Slingshot Copter

Item number: XP03201

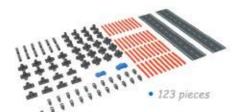
Fire your Slingshot Copter high in the sky, it will fall back spinning like a Helicopter. Watch the Copter spin and learn basic aerodynamics.

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.





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?



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?



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?



ToGo

35



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



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.







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





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!







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!





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.





Item number XA01008 Package: 3.5" x 11" x 0.5" 90 x 280 x 13mm

IRON BIRD RUBBER BAND POWERED ORNITHOPTER

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





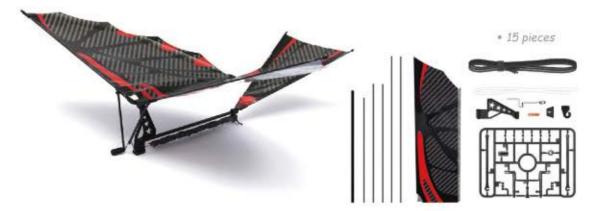
ages 14+ Item number XA08301

Pockage: 4.5" x 9.5" x 1" 110 x 240 x 25mm

DARK WINGS RUBBER BAND POWERED ORNITHOPTER

- Cool scheme
- Improved carbon fiber structure
- Box package









Item number: XA01103

Featuring lightweight and modularization design, the Skysail is built to take you to new heights with ease. But that's not all - with a built-in flight timer, you can easily set a maximum power time to control the flight and ensure your plane won't fly away. Get ready to soar with your new favorice flying companion!





- · Flight timer equipped
- · Pusher configuration
- Super capacitor quick charge & long life
- . No glue or tape needed





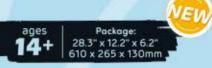
11 pieces
3 AA batteries required



SKY CUB

2.4GHz RC Plane

- 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



Item number: XAO4701A



DURABLE

The wing automatically detaches in crash

· 4 AA batteries required for the transmitter.





ages Pockage:

14+ 28.3" x 12.2" x 6.2"
720 x 310 x 160mm

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





4 AA batteries required for the transmitter.

Global Hawk

ages Pockage: 14+ 32.8" x 14.5" x 9.6" 835 x 370 x 245mm

2.4GHz RC RTF Trainer with optional floats

Item number: XA08802A (Red) 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







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



VOYAGER VOYAGER

2.4GHz RC Sailboat

ages Pockage: 14+ 16.75" x 27.5" x 5" 428 x 700 x 120mm

Item number: XB03402A (red) 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)





- 4 4 4	ALC: A RESIDENCE	222,002,00	for the	transmitter
• 4 AA	natteries	renuired	tor the	transmitter

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

^{*} See pages 41 for non-motorized VOYAGER 280 and 400



GT3 ROAD RACER PLAYSTEM ZTF 1/18 GT Car

Item number XC01801

Packing size 11.8" * 7.2" * 8.2" 300 x 183 x 208mm

Built with precision and attention to detail, this car is designed to provide a realistic driving experience. With its high-performance motor and responsive handling, you'll be able to hit top speeds and navigate sharp turns with ease. Whether a pro or a newcomer, the GT3 Road Racer is sure to impress!

Quick features

- 1/18 tough, pre-painted body
- · Four-wheel drive for superior traction and acceleration
- · Powerful 370 motor
- Ready-To-Run with included 7.4V Li-Po battery and USB smart charger
- · Fully independent suspension for extraordinary on-road handling
- · Front and rear gear differentials
- Soft-compound tires
- CNC-machined transmission parts
- . Durable construction that's built to last

Key specs

Size	10.2" * 4.8" * 3" 260 * 123 * 75mm	
Wheelbase	160mm / 6.3"	
Motor	370 Brushed	
Speed	40km/h / 24.9 mph	
Drive system	Shaft-driven 4WD	
Radio system	2.4GHz Radio	
Included Batteries	7.4V 2S 900mAh Li-Po Battery	

• 4 AA batteries required for the transmitter.



XC01801B

XC01801C XC01801D



XC01201

Packing size 9.7" * 7.2" * 8.2" 246 x 183 x 208mm



A lineup of three high-performance cars for ultimate versatility. Each vehicle in the series boasts a unique body style and driving experience. They are evolved from the same durable and flexible platform ZTF. The smooth control makes the series an excellent choice for both beginning and experienced RC enthusiasts.

- . Tough, pre-painted body with decals
- ZT MODEL Flat chassis platform
- · Four-wheel drive for superior traction and acceleration
- . Powerful motor for exciting speed
- Ready-To-Run with included 7.4V Li-Po battery and USB smart charger
- · Soft-compound tires
- · Fully independent suspension for exceptional road handling and control
- . Durable construction that's built to last

Key specs

	Rally	Touring Car	Pickup Truck
Size	200 * 105 * 75 mm 7.8" * 4.1" * 3"	215 * 105 * 69 mm 8.5" * 4.1" * 2.7"	215 * 105 * 96 mm 8.5" * 4.1" * 3.8"
Wheelbase		120 mm / 4.7"	建筑的
Motor		130 Brushed	
Speed	30 km/h /	18.6 mph	20 km/h / 12 4 mph
Drive system		Shaft-driven 4WD	A PARTY NAMED IN
Radio system	2.4GHz Radio		
Included Batteries	3.7V 380mAh Li-Po Battery		

• 4 AA batteries required for the transmitter.













TOURING CAR



Item number XC01501

Packing size 9.7" * 7.2" * 8.2" 246 x 183 x 208mm











XC015018 XC01501C XC01501D

PICKUP TRUCK 14+



Item number XC01601

Packing size 9.7" * 7.2" * 8.2" 246 x 183 x 208mm















XC01601A XC01601B XC01601C XC01601D