



modern teaching aids

STEM Resources 2017

Construction
& Engineering Sets

Robotics

3D Printers

Makerspace Sets



Free Freight

Just add \$200 of Art & Craft, Stationery
or Health & Hygiene to your order

P 1800 251 497

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teaching.com.au

3D Printers	30
Animation Software	18
Cubetto	28
Geomag Shape & Space	9
Gigo STEM Kits	6
Hydraulics	7
K'NEX STEM Sets	4
LEGO® Education EV3	24
LEGO Education Simple & Powered Machines	12
LEGO Education Simple Machines	10
LEGO Education WeDo 2.0	22
littleBits	20
Makeblock Makerspace	32
Makeblock mBot	26
Makeblock mBot Ranger	27
Makey Makey	19
mBot	26
mBot Ranger	27
Mechanics	7
Ogobild Animation Software	18
Polydron STEM Sets	3
Sensory Play	14
Shape & Space	9
Simple Machines Sets	8
STEAM Kits	14
STEM Books	33
STEM Kits	1

What is STE(A)M?

STEM is an educational approach that incorporates Science, Technology, Engineering and Mathematics to guide students learning. By adding art and design to the equation, STEM transforms into STEAM.

Students that are exposed to experiential learning are proven to be better problem solvers, more creative and develop higher level critical thinking skills.

These attributes are essential for all students, in order to meet the needs and expectations of the 21st Century workforce and future careers.



Contents

- 2x 20 sets Mechanics cards
- 60 rods
- 64 spheres
- 4 indicator rods
- 8 compass roses
- 84 extra building accessories
- Contained in a plastic Grattells SmartCase® for easy storage

Geomag Mechanics Class Set

GEO225
220 pieces & 40 cards
\$289.95

In this mini laboratory, students are introduced to the basic concept of magnetic polarities. They then tailor the polarities to create controlled magnetic reactions and drive motion before progressively tackling more challenging tasks such as building and reinforcing a bridge span. STEM are woven into this stimulating and truly innovative set, which includes easy-to-comprehend student work sheets and a teacher's guide.



Key Learning Values

- Magnetic polarities
- Making a compass
- Accumulation of polarities
- 2D and 3D shapes
- Structures
- Utilising magnetic push and pull forces
- Creating rotational movement
- Driving movement through magnetism
- Simple electric motors



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Valid until 31st December 2017.
Promotional value excludes GST & freight.
*Offer excludes export & new projects.

Resource features and information



New in 2017



Magnetic



Includes Storage



Curriculum Link



Exclusive to MTA



Locally Made



Download the App



Art Activity



Green Choice



Machine Washable



Soft Fall required



Made using responsibly sourced materials

90cm (W)
60cm (D)
60cm (H)

Size of product



Recommended ages



CD included



~~\$572.55~~
\$469⁹⁵
 SAVE \$102.60

Makerspace Building Kit
 MS900K \$469.95

“Engineer, create, build and improve structures, models and building. Use plastic, wood, or other base materials and use the tools included to put together impressive ideas.

- Kit includes**
- 1x K'NEX - Introductory Building Set 705 pieces (KN12211)
 - 1x Straw Beads Heavy Duty - Pack of 218 (RE2152)
 - 1x Galt - Connecta Straws (GN0545)
 - 1x Balsa Wood Box Assorted Sizes 3kg (ATM10801)
 - 1x Paddle Pop Sticks Plain - Pack of 1000 (JM67)
 - 1x Scratch Wooden Sticks - Pack of 25 (TH088)
 - 1x Duct Tape 20m x 48mm (UB0096D)
 - 1x High Temperature Glue Gun (CG39)
 - 1x High Temp Glue Stick 10cm - Pack of 10

- (CG46)
- 1x Hammer - 16cm (IND012)
- 1x Nails Assorted 20 to 50mm 7oz - Pack of 210 (NL024)
- 1x Armature Wire 3mm x 50m Roll (TH903)
- 1x Wooden Spools Natural - Pack of 50 (SH960)
- 1x Construction Value Pack Natural - Pack of 1000 (SH962)
- 1x Wooden Wheels - Pack of 20 (TH502)
- 1x Seagrass Cord 75m Roll (SH919)
- 4x Single – Double – Triple Pulley Set (EIS0280K)
- 2x Heavy Duty 80 Litre Container (K80L)

new

~~\$235.50~~
\$199⁹⁵
 SAVE \$35.55



Makerspace Design & Create Kit
 MS120K \$199.95

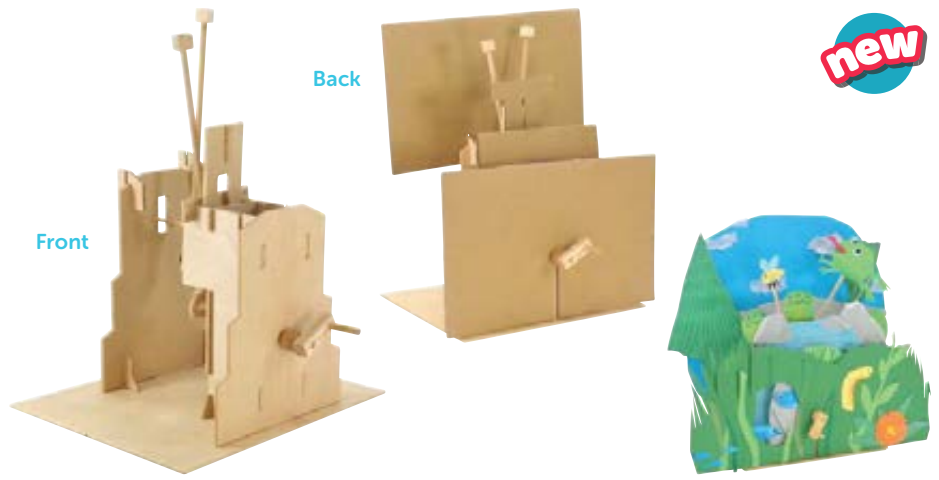
This kit is a great introductory set to combine design, art, technology, engineering, maths and science and to start building. Whether this is a craft project, to design a perfect architectural structure, a 3D maths shape, accessory, bridge, tower or anything else your imagination guides you.

- Kit includes**
- 5 sets of 1000 Large Paddle Pop Sticks (JM67)
 - 5 sets of 1000 Small Paddle Pop Sticks (SH956)
 - 4 Low Melt Glue Guns (TH120)
 - 10 sets of 10 Low Melt Glue Sticks (TH121)
 - 80 Litre Storage Container (K80L)



Youtopia - STEAM Diorama
 SN6724 Each \$27.95

This open-ended kit takes the traditional 3 dimensional features of a diorama and mixes it with mechanics. Science and art come together so you can create a model that moves. The basic body of the diorama is assembled from pre-cut wooden pieces and the background (elevated) and foreground (ground) panels are fixed. A crank handle at the front controls a small front panel that moves vertically and a middle arm and rear arm that move independently in a horizontal arc. Card stock is supplied to be decorated and slotted or glued onto the moving parts and panels can be changed as required to create new scenes. Instructions include helpful hints for decoration and the packaging includes images of completed designs for visualisation. Suitable for ages 8+



new

new



STEM Engineering & Design

LER2842 \$44.95

Get early STEM skills in full swing! Set includes plastic pieces to build and design a playground. Make a slide, swingset, see-saw and more! Additional pieces help add the "A (Art) to STEM (STEAM).

5+ yrs

Set includes

- 2 Blue Slide pieces
- 1 Black Tire
- 1 Yellow Swing Seat
- 1 Purple Platform
- 1 Orange Hook
- 1 Green Handle
- 2 Green Seesaw Plank
- 6 Blue Triangle Connectors (one with loop)
- 1 Blue Circle Connector (for triangle pieces)
- 6 Yellow Round Bases
- 4 Purple Rod Connectors
- 2 Orange Round Poles
- 2 Orange Round Connector Poles
- 8 Green Short Square Poles
- 8 Green Long Square Poles
- 6 Green Base Connectors
- 4 Green Connecting Planks
- 4 Orange Gears (one with raised connection)
- 1 Zipline Pole
- 1 string (30")
- 2 Playground Pals
- 28 Blue Links
- 10 Challenge Cards
- Teacher guide



STEM Sink & Float Activity Set

LER2827

20 activities

\$59.95

Bring investigations about sinking and floating to life! Includes two-piece submarine, 10 colourful weights, 2 stars, a raft, and 10 activity cards with 20 activities to cover topics like buoyancy, gravity, density, and more! Comes with detailed teacher material. Submarine measures 15 x 9cm.

5+ yrs



STEM Magnets Activity Set

LER2833

20 activities

\$59.95

Learn all about the properties of magnetism in a fun, colourful way. Pieces include a horseshoe magnet, magnetic post, maze, 4 ring magnets, 2 bar magnets, 2 magnetic bugs, 2 snap-on cars, and 10 double-sided activity cards (20 activities!). Comes with extensive teacher notes. Maze measures 28 x 21.5cm.

5+ yrs



STEM Forces & Motion Activity Set

LER2822

20 activities

\$59.95

Learn all about physics in a fun, colourful way. Pieces include a pendulum with frame, trellis (23cm high), 2 roadway tracks (30cm long), 2 cars (7cm long), weights, 10 activity cards that cover all aspects of STEM, plus key science concepts of gravity, inertia, friction, push/pull and more! Includes additional teacher material.

5+ yrs



STEM Simple Machines Activity Set

LER2824

20 activities

\$59.95

Introduces children to all 6 simple machines: pulley, lever, wheel & axle, inclined plane, screw, and wedge. Includes 10 activity cards covering all aspects of STEM and a comprehensive teacher guide. Set includes 20 engaging activities.

5+ yrs

new

STEM Activity Kit - Set of 4

LER2833K \$199.95

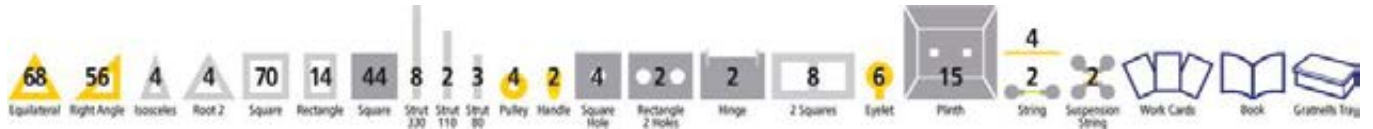
This kit consists of one of each of the following sets: STEM Sink & Float (LER2827), STEM Magnets (LER2833), STEM Force & Motion (LER2822) and STEM Simple Machines (LER2824).

5+ yrs

~~\$239.80~~
\$199.95
SAVE \$39.85

The intended use of the products featured on this page, are for educational purposes only. Adult supervision required. Seek immediate medical attention if magnets are swallowed or inhaled.

new



POLYDRON

Polydron Bridges Class Set

ZZ9030B

322 Pieces

322
pieces

\$499.95

Unlock the secrets of bridge building with Polydron Bridges which gives budding civil engineers and designers a chance to build and test several types of bridge designs, including some of the most recognisable, world-famous bridge constructions. Twelve comprehensive work cards and lesson plans provide step-by-step instructions to piece together truss, suspension, cantilever, drawbridge, cablestay, swing and bascule bridges. The set will encourage and challenge children to go beyond the set shapes and to experiment with their own creations.

new

See inside the shape and explore the space within

POLYDRON

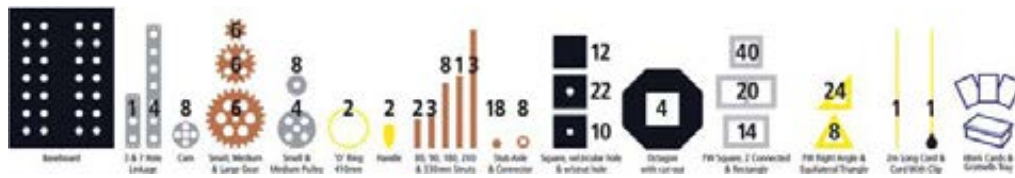
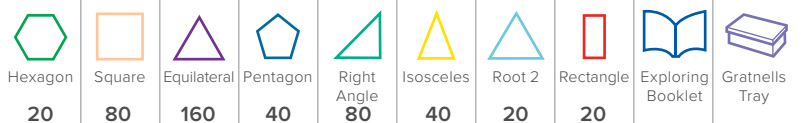
Polydron Frameworks Multi Pack

ZZ3043

460 pieces

\$299.95

Frameworks is the next generation of Polydron with the versatility for bigger and more complex shapes. A unique joining system makes Frameworks completely compatible with original Polydron which will complement any packs already in the classroom. It is lighter and therefore students can construct more complex and bigger designs, while allowing them to see the inside of the shape and explore the space within. Investigate shape, angles, edges, vertices, planes and tangent. Includes an activity booklet.



POLYDRON
Engineer

Polydron Engineer Class Set

ZZ9060

250 pieces

\$299.95

A unique product that demonstrates engineering principles and simple machines, with clear links between maths and engineering. All polydron solids and frameworks pieces can be used with this set. A total of 250 pieces, including complete lesson plans, and supplied in a plastic container. Ages 9+ years



Working V8 model with cam, cylinders & valves



250
pieces



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order



K'NEX Exploring Machines Set

KN7860 1432 pieces \$249.95

Build 30 different models with this comprehensive 1432-piece simple machines set. The kit allows 4 groups to build a specific model simultaneously if required. The models demonstrate levers, pulley systems, wheels and axles, inclined planes, screws and wedges. Also focuses on spur, crown, sprocket, rack and pinion, transmission and differential gear systems. The 70-page teacher's guide contains both key facts and 14 inquiry-based lesson plans. Ages 8+ years



Build 30 different models

1432 pieces

new



K'NEX Exploring Wind & Water Energy

KN77051 288 pieces \$109.95

This set allows students to experiment with wind and water power. Students will investigate the science behind these energy sources and the technologies that make them useful. Build 7 models, one at a time. Suitable for 2-3 students working in small groups. Ages 9+ years.

new



K'NEX Investigating Solar Energy

KN77075 129 pieces \$126.95

This set allows students to harness the energy of the sun and convert it into electricity to power the K'NEX models. Build 3 solar powered models, one at a time. Suitable for 2-3 students working in small groups. Ages 9+ years.

new

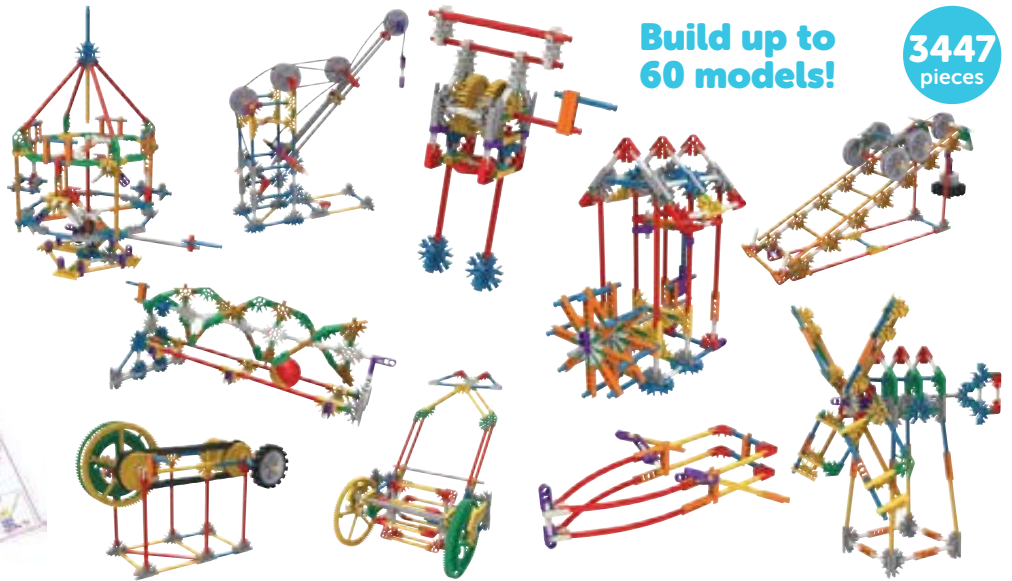
K'NEX Simple Machines Deluxe

KN79520 3447 Pieces \$449.95

This set is designed to introduce students to the scientific concepts associated with simple machines: levers, pulleys, wheels and axles, inclined planes, including wedge and screw and gears. As students build and investigate, they are encouraged to discuss and evaluate the scientific principles in action. Build up to 60 models! Suitable for Years 3 to 8.

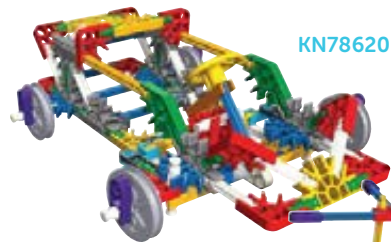
Key concepts

- Simple machines
- Energy transfer
- Effort and resistance forces
- Mechanical advantage
- Motion and Forces

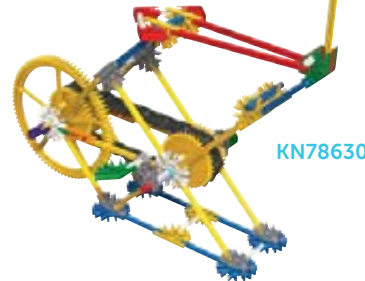


Build up to 60 models!

3447 pieces



KN78620



KN78630



KN78610

\$209.85
\$189.95
 SAVE \$19.90

K'NEX Introduction to Simple Machines

KN78610K	Kit	\$189.95
KN78610	Levers & Pulleys	\$69.95
KN78620	Wheels Axles & Inclined Planes	\$69.95
KN78630	Gears	\$69.95

STEM Education focuses on science, technology, engineering and mathematics concepts taught through problem-solving, discovery, exploratory learning and critical thinking. These K'NEX models offer hands-on learning opportunities that these learning outcomes. The inquiry-based lessons challenge students as they build, investigate, problem solve, discuss, and evaluate scientific and design principles in action. Each set comes with teacher's guide. Find more information about each individual set on our website.

920
pieces



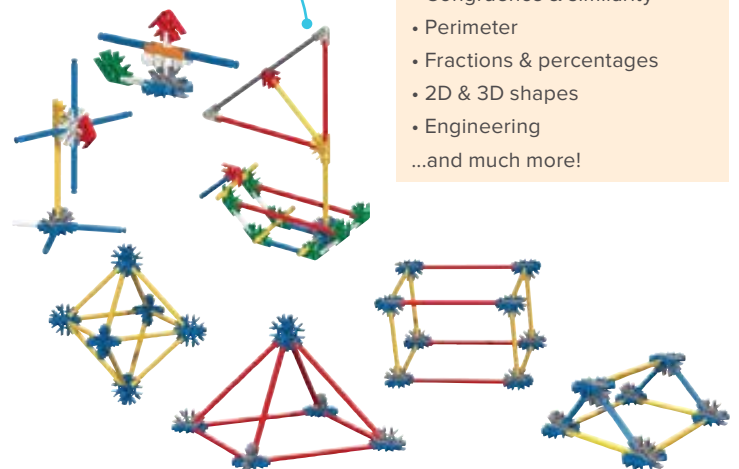
K'NEX – Lower Primary Maths Set

KN79028 920 pieces \$199.95

Set includes enough material to build 95 maths and geometry models and can support 12 to 16 students working in teams of 3 or 4. Key concepts include: surface area and volume, congruence and similarity, fractions, decimals, money and percentages and more. Models include: angles, polygons, prisms, pyramids, cubes, fraction models, area and perimeter, challenge models and more. Comprehensive teacher's guide is included. Supplied in a strong storage tray with lid.

8+ yrs

Builds 95 models



Key Concepts

- Surface area & volume
- Congruence & similarity
- Perimeter
- Fractions & percentages
- 2D & 3D shapes
- Engineering
- ...and much more!



K'NEX – General Construction Set

KN7981 1475 pieces \$299.95

Tremendous value for general building! Treat your class to 1475 K'NEX pieces and building instructions for an unprecedented 82 exciting and dynamic models. Standard and unique K'NEX pieces explode from this convenient plastic tub including new K'NEX Panels! Contents include a spring motor, a power pack motor and 2 instruction books, all packed in plastic storage tub.



K'NEX – Introductory Building Set

KN12211 705 pieces \$89.95

Includes 705 classic K'NEX pieces for open ended construction. Includes instructions and ideas for 70 unique models including cars, plane, sea creatures, and more. All K'NEX sets are compatible. Use your imagination to build creative and colourful constructions. Each piece snaps together to create large scale, stable models. Supplied in a cardboard box.



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Includes
20 lesson
plans



Set of 4
\$339⁹⁵
SAVE \$59.85

Forces & Simple Machines

GG1234 Each set \$99.95
GG1234K Set of 4 \$339.95

Using Gigo's construction blocks, kids can build models of cranes and scales within the courses while learn about the principles behind the movement of force, levers, inclined planes, axles and some other simple machines. The set includes 20 lesson plans, including 16 models and 4 creative works, a student workbook, and 3D Smart Manual to view the model on your tablet in 3D. Each lesson plan exists of an introduction with theory, building instructions, the experiment, improvements and evaluation.

Learn about forces & simple machines

250 pieces

Includes
20 lesson
plans



Set of 4
\$339⁹⁵
SAVE \$99.85

Learning Lab – Motion & Mechanism

GG1235 Each set – 20 Modules \$109.95
GG1235K Set of 4 \$339.95

Using Gigo's Learning Lab construction blocks as a foundation, kids can learn the designs of complex transport machines, and understand the movement and the function of different types of mechanical structures, including: gear racks, cams, and worm gears. It helps kids to develop the foundations of mechanical machine design. The set includes 20 lesson plans, including 16 models and 4 creative works, a student workbook, and 3D Smart Manual to view the model on your tablet in 3D. Each lesson plan exists of an introduction with theory, building instructions, the experiment, improvements and evaluation.

328 pieces

Includes
20 lesson
plans



Set of 4
\$519⁹⁵
SAVE \$99.85

Learning Lab – Electricity & Circuit Kit

GG1236 20 Modules \$154.95
GG1236K Set of 4 \$519.95

Using Gigo's Learning Lab electrical building blocks, kids will learn about series and parallel connection, as well as simple circuit designs by assembling common devices from our daily lives, such as a traffic light, an alarm and a torch, developing knowledge of electricity in the process. The set includes 20 lesson plans, including 16 models and 4 creative works, a student workbook, and 3D Smart Manual to view the model on your tablet in 3D.

156 pieces

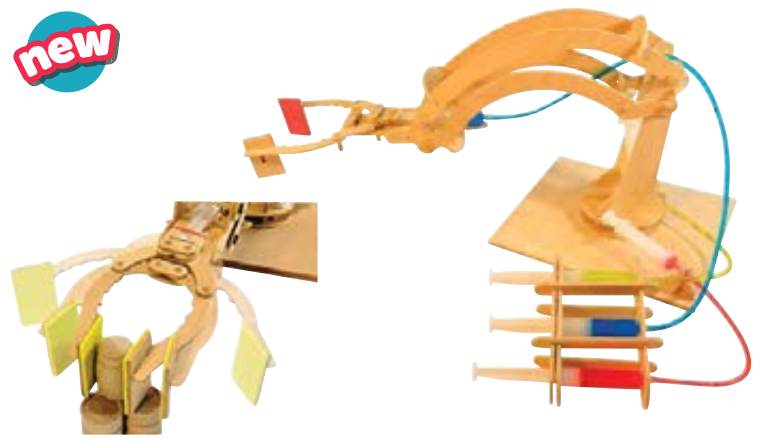
new



Hydraulic Classroom Pack
SN6717 \$299.95

This large hydraulic classroom pack ensures that you only need scissors, glue and cardboard to get the class inventing with parts for 30 students in pairs to build over 15 machines with an average of 4 pistons per machine.

new



Hydraulic Robotic Arm
SN6710 Each \$49.95

This model uses a battery of independent hydraulic circuits to provide absolute control over the arm pincers: grip, lift, twist, lower and release. This set teaches the basics of hydraulics and robotics.

new

Build a cherry picker, excavator, platform lifter & scissor lift!

Hydraulic 4-in-1 Mini Machines
SN6706 \$64.95

This set includes the four main hydraulic mini machines: the cherry picker, and excavator as well as the platform lifter and scissor lift. The cherry picker teaches the principles of linkages and includes a small platform for figurines that remains flat at any height. The excavator teaches the principles of levers and hydraulic power. The mechanism includes two hydraulic cylinders and can be adjusted to provide either digging or scooping actions.



new



Geomag Mechanics Class Set
GEO225 220 pieces & 40 cards \$289.95

In this mini laboratory, students are introduced to the basic concept of magnetic polarities. They then tailor the polarities to create controlled magnetic reactions and drive motion before progressively tackling more challenging tasks such as building and reinforcing a bridge span. STEM are woven into this stimulating and truly innovative set, which includes easy-to-comprehend student work sheets and a teacher's guide.



Contents

- 2x 20 sets Mechanics cards
- 60 rods
- 64 spheres
- 4 indicator rods
- 8 compass roses
- 84 extra building accessories
- Contained in a plastic Gragnells SmartCase® for easy storage

Key Learning Values

- Magnetic polarities
- Making a compass
- Accumulation of polarities
- 2D and 3D shapes
- Structures
- Utilising magnetic push and pull forces
- Creating rotational movement
- Driving movement through magnetism
- Simple electric motors



Free Freight

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new



Screw
EIS0020SM \$32.95

With large block on the head of the screw to give additional leverage. Size: 20 x 10 x 11cm.

new

Block & Tackle
EIS0021SM \$32.95

This model shows how the use of multiple pulleys can increase the mechanical advantage.
Size: 17 x 12 x 22cm.



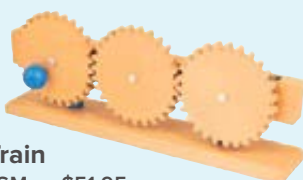
Inclined Plane
EIS0010SM \$27.50

With a shallow indent for adding additional mass if needed. With rubber wheels and grooves in the track of the inclined plane. Size: 42 x 8.2cm with an adjustable height.



Gear Train
EIS0011SM \$51.95

This apparatus can model how gears work at a basic level to make work easier. The base is 16.5 x 8.9cm, 41cm tall.



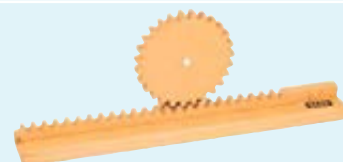
Wedge
EIS0014SM \$25.95

This model can be used to demonstrate how a wedge can increase mechanical advantage. Size: 35 x 9.5cm base with adjustable height.



Gear
EIS0015SM \$38.95

This model can demonstrate how gears can turn rotational motion into translational motion. The base is 40 x 6cm and the model is 15.2cm tall.



Pulley
EIS0012SM \$25.95

This model shows mechanical advantage created by pulleys. Size: base 16.5 x 8.9cm and 41cm tall.



Pendulum
EIS0013SM \$25.95

Study the relation between length of the pendulum and period of the bob. Size: base 8.9 x 16.5cm, 39.5cm with 30cm adjustable pendulum.



Motion Converter
EIS0016SM \$38.95

Show your students how rotational motion can be converted into linear motion with this motion converter. The gears are 12cm in diameter and are mounted on a 38.5 x 6.8cm base. The model is 14.5cm tall.



Fulcrum Balance
EIS0017SM \$25.95

Study how changing the distance from the fulcrum changes the mechanical advantage. Students can intuitively figure out the balance point for a given set of masses. Size: 22 x 5.5cm with a height of 13.3cm. The lever arm is 45cm long.



Lever
EIS0018SM \$17.95

Study levers and mechanical advantage both qualitatively and quantitatively. Size: base 22 x 7cm, the lever arm is 19cm.



Wheel & Axle
EIS0019SM \$24.95

This model can show how a crane works, as well as several other uses for a wheel and axle. Size: base 24 x 9.5cm. Stands 11.5cm high.



new

Wooden Simple Machines Class Set

EIS0019K Set of 12 \$279.95

These wooden simple machines are a great resource to show your students how simple machines can provide mechanical advantage and change the magnitude and direction of a force. Each model has a sturdy construction, perfect for classroom use. The models come with detailed instructions and activities.

~~\$369.95~~
\$279.95
SAVE \$90.00

Work groups come to life, as students explore and reproduce 2D polygons, 3D geometric shapes and space concepts using coloured, magnetic rods. The engaging content gives insight to both structured and open-ended activities. A progressive series of cards define a model to complete, questions for students to independently discuss and questions to help teachers assess the students' understanding.



Contents

- 2x 20 Activity Shape and Space cards
- 60 rods
- 64 spheres
- Contained in a plastic Grattells SmartCase® for easy storage

Key Learning Values

- Constructing 2D and 3D shapes
- Perimeters and areas, doubling & halving
- Triangles and quadrilateral shapes
- Pyramids, quadrangles, triangles, octagons, hexagons
- Repeating sequences and tessellations
- Parallel and mirror lines
- Symmetry and rotational symmetry
- Distinguishing between straight and turning movements/recognising 1/2 and 1/4 turns
- Visualising and describing shapes, movements and transformations
- Applying numeracy skills to other areas of learning
- Collecting and recording data/analysing and explaining results and procedures
- Solving problems by breaking down into smaller tasks

Geomag Shape & Space Set

GEO222

124 pieces & 40 Cards

\$199.95

Our introductory set ensures all students find the elementary principles of Euclidean geometry fun, easy to grasp and stimulating. Model building and discussions in the classroom encourage proactive participation, leading to positive results from an early age.



Key Learning Values

- Constructing 2D and 3D shapes
- Right and acute angles, perimeter of squares
- Properties of regular and irregular polygons
- Duplication, symmetry and mirror lines
- Pattern theory and mathematical nets
- Measuring drawing lines
- Probability
- Mathematical language, notation, symbols
- Verbally describing shapes, movements and transformations
- Collecting data, recording findings, classifying objects
- Solving problems by breaking down into smaller tasks



Contents

- 20 Shape and Space cards
- 20 Shape and Space Panels cards
- 90 rods
- 80 spheres
- 32 triangle panels
- 32 square panels
- 4 pentagon panels
- 6 base platforms
- Contained in a plastic Grattells SmartCase® for easy storage

Geomag Shapes & Space

GEO224

244 pieces & 40 cards

\$289.95

The panels included in this set allow students to create more rigid 2D and 3D shapes. By reinforcing the concepts of Euclidean geometry with 2D polygons, 3D forms and much more as they build concrete models and make real-life comparisons, pupils enjoy then elaborating their models in a creative, stimulating and productive classroom environment. This concrete approach to understanding abstract concepts gives pupils a head start.



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Discover how the real world works with great hands-on learning

LEGO® Education Simple Machines Curriculum Solution

LEGG689 \$99.95



This set features a brick assortment that includes gears, wheels and axles, levers and pulleys.

Use this set with the accompanying curriculum pack to engage students in investigating and understanding the operation of simple and compound machines found in everyday life. The support materials provided in this curriculum pack include teacher guides and student worksheets.



Solution includes

- Simple Machines Core Set 1
- Simple Machines Activity Pack* www

The Simple Machines Solution

What's included in the Curriculum Solution?



Core Set ✓

Carefully selected LEGO® bricks support students motivation to develop basic STEM capabilities, through building and investigation of real life machines and mechanisms models.

Curriculum content ✓

Built on national standards and developed by teachers. Lesson materials inspire and support educators and students to develop the foundation of STEM capabilities.*

Assessment tools ✓

Assessment of students' learning is enabled through rubrics, observation checklists, and student self-assessment tools.*

eLearning program ✓

Step-by-step tutorials to help you get started.*

Technical support ✓

Ongoing telephone and online support to help you with any questions.

Community ✓

Access to the LEGO Education community of teachers for additional ideas, tips and new connections.



What can I add on?

Training and professional development ✓

Check our Professional Learning calendar on teaching.com.au to find training near you.

Replacement Packs ✓

Replacement bricks are available.

*Available for free download from LEGOeducation.com/downloads

Classroom Solutions

Simple Machines Curriculum Solution Packs

Simple Machines Curriculum Solution
LEG9689



Power Functions Battery Box
LEG8881



Power Functions M-Motor
LEG8883



MTA Storage System Single
SUN8317



LEG9689-4N 8 students	\$379.95 SAVE \$19.85	4			
LEG9689-4NM 8 students	\$499.95 SAVE \$75.45	4	4	4	
LEG9689-8N 16 students	\$739.95 SAVE \$59.65	8			
LEG9689-8NM 16 students	\$949.95 SAVE \$200.85	8	8	8	
LEG9689-8NS 16 students	\$1,049.95 SAVE \$260.75	8	8	8	1
LEG9689-12N 24 students	\$1,099.95 SAVE \$99.45	12			
LEG9689-12NM 24 students	\$1,399.95 SAVE \$326.25	12	12	12	
LEG9689-12NS 24 students	\$1,499.95 SAVE \$386.15	12	12	12	1

Included with each purchase of the Simple Machines curriculum solution



Simple Machines Activity Pack

The activity pack for Simple Machines features 16 principle activities, 4 main activities and 4 problem-solving activities. Enables students to recognise simple machines in everyday use, to understand the principles behind them, and to become familiar with the vocabulary relevant for the simple machine in focus: gears, wheels and axles, levers or pulleys. Includes a comprehensive teacher's guide. This activity pack is included with LEG9689 Simple Machines Curriculum Solution.

Key Learning Values

- Observing and investigating simple machines: gears, wheels and axles, levers, and pulleys
- Developing scientific inquiry skills
- Following a design brief as part of the engineering design process
- Learning and applying relevant vocabulary for simple machines
- Fair testing, predicting and measuring, collecting data, and describing outcomes

Facilitate real-world STEM learning

LEGO® Education Simple & Powered Machines Curriculum Solution

LEG9686 \$279.95



This primary and high school level core set contains a brick assortment and full-colour building instruction booklets for 28 models.

Use this set with the accompanying curriculum pack to promote students' fundamental STEM understanding of simple machines, structures and mechanisms. The curriculum pack provides full lessons, extension activities and problem solving tasks, as well as teacher guides and student worksheets.

Solution includes

- Simple & Powered Machines Core Set 1
- Introducing Simple & Powered Machines Activity Pack* www
- Advancing with Simple & Powered Machines Activity Pack* www



A stimulating STEM solution

What's included in the Curriculum Solution?



Core Set ✓

Contains LEGO bricks and gears to create small models to build and explore real world mechanisms and energy concepts, motivating students STEM learning.

Curriculum content ✓

The curriculum material is based on national curriculum standards and supports teachers with easy accessible activities to deliver highly engaging STEM learning.*

Assessment tools ✓

Assessment of learning is enabled through creative assessment, teachers checklists and student self assessment tools.*

eLearning program ✓

Step-by-step tutorials to help you get started.*

Technical support ✓

Ongoing telephone and online support to help you with any questions.

Community ✓

Access to the LEGO Education community of teachers for additional ideas, tips and new connections.



What can I add on?

Expansion sets ✓

Two add-on packs are available, each with curriculum pack included. These are the Renewable Energy Add-on and the Pneumatics Add-on.

Training and professional development ✓

Check our Professional Learning calendar on teaching.com.au to find training near you.

Complementary products ✓

Technology components are also available as separate products.

Replacement Packs ✓

Replacement bricks are available.

*Available for free download from LEGOeducation.com/downloads

Classroom Solutions

Simple & Powered Machines Curriculum Solution Packs

Simple & Powered Machines Curriculum Solution
LEG9686



Track, Ramp & Stand
EIS0355DYTR



MTA Storage System Double
SUN8327

3rd Party Product **Exclusive**



MTA Storage System Triple
SUN8337

3rd Party Product **Exclusive**



LEG9686-3N 6 students	\$799.95 SAVE \$39.90	3		
LEG9686-6N 12 students	\$1,569.95 SAVE \$109.75	6		
LEG9686-6ST 12 students	\$1,719.95 SAVE \$179.95	6	1	
LEG9686-8N 16 students	\$1,999.95 SAVE \$239.65	8		
LEG9686-8ST 16 students	\$2,199.95 SAVE \$319.60	8		1
LEG9686-12N 24 students	\$2,979.95 SAVE \$379.45	12		
LEG9686-12ST 24 students	\$3,279.95 SAVE \$519.35	12		2
LEG9686-12NS 24 students	\$3,379.95 SAVE \$529.30	12	1	2
LEG9686-15N 30 students	\$3,699.95 SAVE \$499.30	15		
LEG9686-15ST 30 students	\$4,099.95 SAVE \$659.20	15		2
LEG9686-15NS 30 students	\$4,199.95 SAVE \$779.10	15	2	2



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

new

Made of 100% recyclable cardboard



~~\$209.85~~
NOW ONLY \$169.95
SAVE \$39.90

Gigi Blocks Set

GIG2	60 pieces	\$69.95
GIG2-K	180 pieces	\$169.95

Made of 100% recyclable cardboard: Above all, children's safety first. These exciting building blocks from recyclable, but firm cardboard. Yes, if the children fall on them, they might break faster than plastic. But you can be sure, they won't hurt themselves. Other than that, they will enjoy playing with these blocks again and again, lasting for year.

new



Solid Water Sensory Gel

RE6560 Each \$32.95

In just a few minutes, you can create a clear gelatine-like material that can be moulded into interesting shapes. It acts like solid water! The material is vegetable based and vegan. Develop fine motor and problem solving skills. Use it in art activities or make your own wobbly building blocks! The gelatine contains a preservative so it will last for over a week and can be melted and reused up to three times. Includes: 200ml which is enough to make 50 cups (12 litres) of gel.

3+ yrs

new

Slime Baff - Single Pack

SB01-1 Each \$9.95

Make bath time fun with Slime Baff! Slime Baff is a powder that turns bath water into a gooey slime. When the fun is done simply turn the taps back on to dilute the slime. Slime Baff gives children a fun bath time, does not block drains and is kind on skin. Randomly supplied in different colours.



new

Crackle Baff - Single Pack

CB5230-1 Each \$9.95

Make your bath water crackle and pop with this magical popping dust. Sprinkle some over your water and watch it bubble.



new

Gelli Baff - Single Pack

GE5143-1 Each \$9.95

Gelli Baff is a totally unique, fun, bath time product that lets you turn water into goo and back again! By adding Gelli Baff powder to water, you create a thick colourful goo. Add a second 'dissolver' powder, to turn the goo back to water! Randomly supplied in different colours.



new

Sensory Materials Kit

RE6560K \$49.95

Explore different types of sensory materials. This kit consists of one of each: solid water sensory gel (RE6560), Slime Baff (SB01-1), Crackle Baff (CB5230-1) and Gelli Baff (GS5143-1).

~~\$66.80~~
\$49.95
SAVE \$16.85





new

Block Play Simple Machines - Conveyor Belt
LS0202 \$79.95

Students move a wedge around to see if a change in angle makes work easier or more challenging! The conveyor belt measures 32cm long. Blocks not included.

new

Block Play Simple Machines - Elevator
LS0203 \$89.95

Students see how simple machines make work easier with our real-working wooden replicas! The wooden platform moves up and down with a spin of the knob. The elevator measures 23cm tall. Accessories not included.



new

Block Play Simple Machines - Sky Crane
LS0204 \$99.95

Students turn the crank to activate the pulley system and watch the platform move up and down. The sky crane measures 33cm tall. Accessories not included.



Lakeshore
LEARNING MATERIALS

Block Play Simple Machines Kit

LS0200K Set of 3 \$239.95

Students get hands-on experience with cause & effect as they raise and lower objects on an elevator, move blocks on a conveyor belt & more. Plus, they'll gain insight into how full-sized machines make big jobs easier. This kit includes one of each of the Conveyor Belt (LS0202), the Elevator (LS0203) and the Sky Crane (LS0204).

new

~~\$269.85~~
\$239.95
SAVE \$29.90



Lakeshore
LEARNING MATERIALS

STEM Treehouse Challenge
LS0607 Each \$199.95

An easy-to-read story helps students take on our STEM challenge with confidence! The relatable characters in our storybook introduce the design elements that make a perfect tree house, inspiring students to jump right into building. We've included all the pieces students need to complete every step, so it's easy to read, plan and build. Includes a durable wooden tree, 138 plastic builders, 4 weighted people, a 20-page storybook and a guide. The tree is 50cm tall.

new



new

Each set includes 10 vehicles!

Lakeshore
LEARNING MATERIALS

Design & Play STEAM Kit		
LS570K	Kit	\$139.95
LS571	Cars	\$62.95
LS572	Boats	\$49.95
LS573	Planes	\$49.95

Kit of 3
\$139.95
SAVE \$22.90

Our craft kits let children create and customise real-working cars, boats and planes for a fun-filled introduction to early STEAM concepts! Ideal for integrating STEM with arts & crafts, each kit includes enough materials for 10 kids to engineer their own vehicle. Children just use the pre-cut pieces to build each one, and customise it with their craft materials (not included). Then put it into action! As students test their creations, they'll explore ways to fine-tune each vehicle until they have a car that races, a boat that sails and a plane that soars! Available in a set of 3 (LS57K), or individually. Each set is supplied with a teacher's guide & the materials needed to create 10 working vehicles.

STEAM Kit – Colour Exploration

AM4100 Kit \$199.95

Students will love learning about the principles of colour through hands on Science, Technology, Engineering, Art and Maths incorporated activities in this kit. Kit includes an educators lesson guide and all the resources you need to introduce new concepts or reinforce topics in the classroom. Kit contents may vary.



This kit includes:

- Educators STEAM Activity Lesson Guide
- CS6250 - Creatistics Watercolour Asst Colours - Set 6
- EC723 - Paint Pipettes 1ml - Pack of 12
- EC110 - Mixing Palette - 10 Wells
- CS2050 - Creatistics Dough - Red 1kg Tub
- CS2053 - Creatistics Dough - Blue 1kg Tub
- CS2051 - Creatistics Dough - Yellow 1kg Tub
- CS2054 - Creatistics Dough - Orange 1kg Tub
- CS2052 - Creatistics Dough - Green 1kg Tub
- CS2055 - Creatistics Dough - Purple 1kg Tub
- EC370 - Coloured Plastic Bowls - Set of 6
- MD1134 - Roymac Watercolour Paper 230 x 305mm - Pad of 12
- RE5213 - Colour Diffusing Paper 23 x 30cm - Pack of 50
- CB842 - Small Mist Bottles - Set of 6
- K28L - Heavy Duty 28L Storage Container

new



Creative fun with sculpting your own toy!

Carton Blocks – Creative Construction Set

GIG2-K2 Set \$239.95

This Creative Construction Set includes a variety of items for the one with the richest imagination and creative ideas. Build your own toy with this creative construction set. It consists of at least 180 carton blocks, double and single blocks. It comes with crayons to draw and write anything you think of, rhinestones, joggle eyes, alphabet pasting pieces, glue sticks pack of 12 and glitter to use your imagination and create your own designed Gigi blocks! Easy to fold, adult assembly required. Contents may vary. Accessories not included.

exclusive



\$288.55
\$239.95
SAVE \$48.60

STEAM Kit – Science of Light & Colour

AM4101 Kit \$259.95

This STEAM kit contains a complete range of essential art and craft products, plus an educators lesson guide with ideas for teaching concepts of Light and Colour in the classroom. Investigate, discover, create and reflect with this comprehensive range of products. Kit contents may vary.

This kit includes:

- Educators STEAM Activity Lesson Guide
- SN6725 - Kaleidoscope Student Kit - Pack of 10
- MD2560 - Magic Black Light Torch
- AM0514 - Decorative Plastic Light Bulb - Pack of 6
- TEB1212 - Teachables Coloured Highlighters - Set of 12
- CT8138 - Flat Mirror - Set of 10 - 21cm x 30cm
- EDU1311 - Hexagonal HB Graphite Pencils - Pack of 12
- MND4108 - Drawing Paper Pad 9x12" - 50 Sheets
- BY1048 - Crayola Sidewalk Thick Chalk - Box of 48
- FA0034-M - Resealable Medium Plastic Bag Pack of 24
- CS1412 - Round Bristle Paint Brushes Short - Pack of 12
- IP0400 - Paint Tray with 6 Pots
- TH891 - Sunpaper Kit - UV Reacting Paper
- TH880-FP - Poster Paint Colour Fluoro Palette
- K28L - Heavy Duty 28L Storage Container



new



Sunpaper Kit – UV Reacting Paper
TH891 \$40.95

This Sunpaper kit encourages an interest in the photographic process using only sun, water, and a bit of imagination. The paper goes through a chemical change when exposed to light. Place a fern, flower, or other objects on the special paper and set it in the sun briefly. Then rinse the paper in water and watch as a beautiful long-lasting image appears! Content: 15 sheets of 20 x 30cm.



Magic Black Light Torch
MD2560 Kit \$9.95

Use this super-bright hand-held black light torch for UV and glow STEM experiments or dark den settings. The magic black light shines invisible ultraviolet (UV) light which makes fluoro colours glow brightly and energises glow in the dark items so they glow brighter for longer. Torch comes with a bonus sample pack of fluoro modelling foam and 2 sets of joggle eyes, so you can make glow in the dark characters. 3 x AAA batteries required - not included.

new



Kaleidoscope Kit
SN6725 Pack of 10 \$39.95

Learn how to make your own kaleidoscope in this STEM/Science Activity Kit for kids. It's such a fun way to explore light, reflections, and symmetry. Contents include: kraft paper tubes, eye hole chambers, tall chambers, plastic mirrors, colourful tiles, lenses and instruction sheet. Size of kaleidoscope: 17.4 x 4 cm dia. Pack of 10. Age 3+



Free Freight Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Animation Software

Complexity: Beginners

Extendibility: Add art and craft materials to create characters or use other figurines. The possibilities are endless!

Programming Language/Software: N/A

Compatibility: Windows XP/Vista/7/8 or Windows 10, Intel Mac, OS X version 10.8 or later

Age Group: 6+ years

Curriculum Links: ACTDEK004/13/23/34

- ACTDEP006/7/9/14/15/16/18/25/26/28/36/37/39

- ACTDIK001/7/14



The OGOBILD with Animate It! kit combines constructive play with stop motion animation movie making. Is an all-in-one kit for any student to start learning how to create their own stop-motion animated movies. Use the construction parts included to create personalised characters, or create your own with art and craft resources. The easy-to-use software and camera included will get you started straight out of the box!

Create stop-motion animations!

OGOBILD – Animation Set with Camera

OG001	Each	\$89.95
OG001-5	Set of 5	\$399.95
OG001-10	Set of 10	\$699.95

Set of 10
\$699⁹⁵
SAVE \$199.55

The OGOBILD with Animate It! Kit contains a building kit with 103 construction parts to build your creatures. It also comes with an instruction book introducing stop motion animation, a steady-mount webcam, and software certificate for the Animate It! Express software. The construction pieces include hands, feet, and much more to build lively characters, slick vehicles, and out-of-this-world structures. The various connector pieces snap together providing strong yet flexible joints perfect for the delicate articulation required when creating stop motion animation. The software will guide you step-by-step through the world of stop-motion animation.



Kit includes

- 10x Animation software, cameras and construction pieces (OG001)
- Set of 6 Fluoro Dough - 1kg each (CS2064)
- Pack of 550 assorted Joggle Eyes (TH321)
- Pack of 1000 assorted Pipe Cleaners (CL4704)
- Pack of 300 assorted Pom Poms (EC30S)
- Creative Soft Wire in assorted Colours - 30m (TH030)



OGOBILD – 10 Animation Sets with Camera & Craft Kit

OGKIT1 \$799.95

Everything you need to bring your characters, vehicles, buildings and structures to the next level! This kit includes 10 animation sets and cameras (10 x OG001) plus a wide range of craft resources to create the most creative stop-motion animation videos! Perfect for classroom use.



The ultimate animation class kit

~~\$1,050.00~~
\$799⁹⁵
SAVE \$250.05

Makey Makey

Complexity: From beginners to intermediate

Extendibility: add any material that conducts a tiny bit of electricity. The extendibility is endless!

Programming Language/Software: No software required. Makey Makey works with any software that uses the keyboard or mouse

Age Group: 8+ years

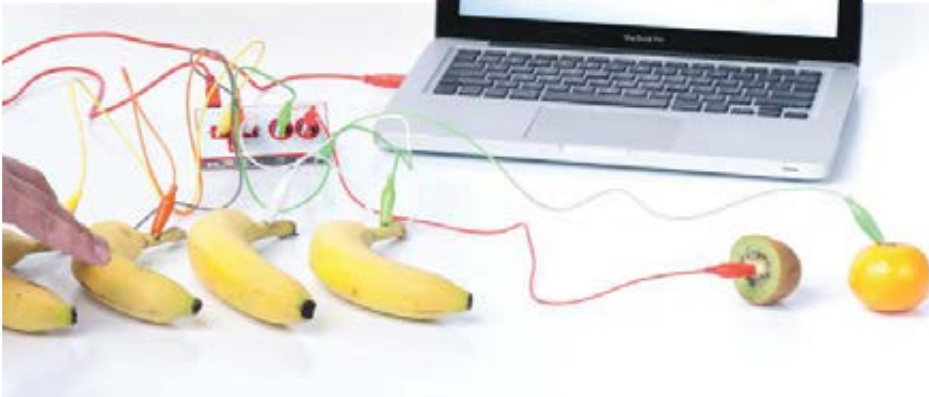
Curriculum Links: ACTDEK004/11/13/20/23/3447 - ACTDIK001/14 - ACTDEP007/16/26/37 - ACTDIP011/18



Makey Makey, the invention kit for everyone, is a simple circuit board that lets you reprogram the world by connecting everyday objects to a computer. Play Mario on Play-Doh or Pianos on Bananas. Makey Makey lets you rewire the world! Warning: extended use may result in creative confidence.

Turn anything into a keyboard!

Set of 10
\$849⁹⁵
SAVE \$149.55



Key Features

- Turn everyday objects like bananas into touchpads
- Connect the world around you to your computer! Setup takes just seconds.
- Just plug, clip, and play. No programming knowledge needed.
- 1000s of possibilities. Draw your own game controller! Dance like never before!
- No software to install. Works with Mac and Windows
- 18 touch inputs
- Works with any material that can conduct at least a tiny bit of electricity
- Connects by USB

Makey Makey Classic

MKK001	Each	\$99.95
MKK001-5	Set of 5	\$459.95
MKK001-10	Set of 10	\$849.95

Makey Makey is an invention kit for the 21st century. Turn everyday objects into touchpads and combine them with the internet. It's a simple invention kit for beginners and experts doing art, engineering, and everything in between. You can connect up to 18 inputs to the Makey Makey (6 on the front and 12 on the back). Each set includes 1 Makey Makey, 7 Alligator Cables, USB Cord, 6 Connector Wires, 1 Tin Case, Stickers, and Instructions.



Makey Makey GO

MKK002	Each	\$49.95
MKK002-5	Set of 5	\$229.95
MKK002-10	Set of 10	\$399.95

Makey Makey GO allows today's tinkerers, dreamers, and makers the mobility to invent anytime, anywhere. Makey Makey GO enables you to invent on the go – and change the world – with the snap of an alligator clip, transforming everyday objects into Internet touchpads. The small size of the Makey Makey GO promises to inspire even more science, technology, engineering, and math (STEM) projects than the original! Just plug, clip, and play! No programming knowledge needed. No software to install. Works with Mac and Windows. Included: 1 USB Invention Stick, a case with magnet, 1 white alligator clip (2.5 ft), a keyring, and instruction guide.



Set of 10
\$399⁹⁵
SAVE \$99.55



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order



Bluetooth enabled!

littleBits Gizmos & Gadgets Kit

LIB680 \$429.95

The Gizmos & Gadgets Kit, 2nd Edition is the ultimate invention toolbox. It turns screen time into hands-on learning. The kit is bursting with motors, wheels, lights, servos - everything you need to spark creativity and fun. Start with step-by-step instructions to build fun DIY games, cars, gadgets and more. Then tilt, shake, or tap your phone to make them do tricks! Create a car and let your phone do the steering. Or a caterpillar that crawls with the tap of a tablet!

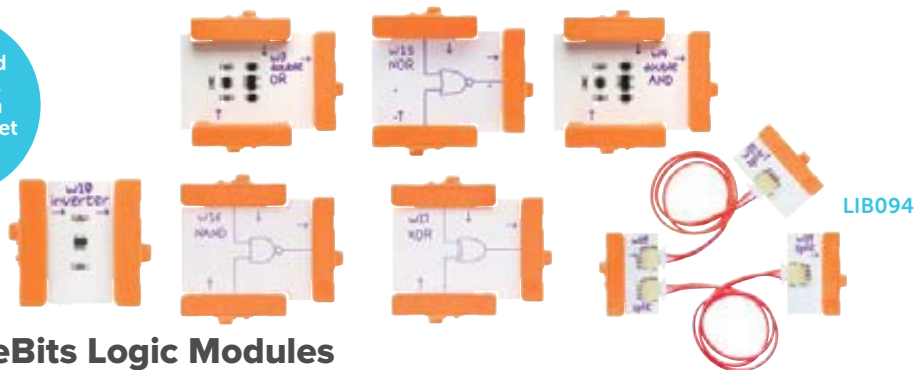
Key Features:

- 13 electronic building blocks, instructions for 16 inventions, 1 challenge, and all the accessories and tools you need to unleash the inventor within.
- 1 huge invention guide - get step-by-step instructions for inventions and challenges, plus ideas for spin-offs and totally new creations.
- Create inventions you control from a smartphone or tablet and turn screen time into hands-on learning.

Modules included:

- Double AND** - for projects in which you want two actions to trigger another
- Double OR** - when you want to detect two inputs but don't care which input is activated
- NAND** - when you need an output to go OFF when both inputs are triggered
- NOR** - when you want the output to be ON unless one or both of its inputs are triggered
- XOR** - for projects in which the activation requires input alternation
- Inverter** - use in combination with logic gates to change how the logic works. Place it after the output of a gate and change the logic completely. Place it before one input and change the logic going into the gate from that input.

Download the Logic Kit lesson plan booklet online!



littleBits Logic Modules

LIB800K	Set of 6 Modules	\$109.95
LIB820	Double OR Module	\$20.95
LIB821	Double AND Module	\$20.95
LIB824	Inverter Module	\$20.95
LIB825	NOR Module	\$20.95
LIB826	NAND Module	\$20.95
LIB827	XOR Module	\$20.95
LIB094	Split Wire	\$36.95

Logic modules create rules for your circuit to follow, enabling you to create more complex interactions. The logic modules should be used in combination with other littleBits modules like input, output and power modules (available on teaching.com.au). This kit consists of one of each of the 6 logic modules. Please note: The split wire (LIB094) is not included in the kit and sold separately.



littleBits Power Module

LIB101 \$15.95

The power is the mother of all Bits modules! Just snap in the battery adapter that comes with it, flip the switch and you're ready to go. Includes: power Bits module, double-sided instruction card, and custom anti-static bag with resealable label.



littleBits Long LED Module

LIB202 \$26.30

The long LED is a great lighting module. We call it the "long" LED because the light is tethered to the board by a cable. This lets you put the light in some interesting places. Includes: long LED Bits module, double-sided instruction card and custom anti-static bag with resealable label.



littleBits DC Motor Module

LB205 \$39.95

The DC (or "Direct Current") motor rotates a shaft when you send it an ON signal. The left/right switch controls the direction of rotation. Try attaching various things to make windmills, cars, helicopters, and more. Includes: DC motor Bits module, double-sided instruction card and custom anti-static bag with resealable label.



littleBits Slide Switch Module

LIB301 \$26.30

The slide switch is a small and convenient switch! It's one of our easiest switches to use. Turn it on to power up your invention, and then turn it off when you are done. Includes: slide switch Bits module, double-sided instruction card and custom anti-static bag with resealable label.



littleBits Wire Module

LIB401 \$26.30

The wire allows you to physically separate your Bits modules. Try it whenever you need to break up your chain of modules, like when you need to put a light at the top of a model building. Includes: wire Bits module, double-sided instruction card and custom anti-static bag with resealable label.



littleBits 9V Battery & Cable

LIB512 \$10.95

This package contains a 9V alkaline battery and a cable to connect it to the power Bits module. Connect it up and then flip the switch to power all of your creations! Includes: 9V battery and 9V battery cable that connects to the power module, double-sided instruction card and custom anti-static bag with resealable label.



Bring STEAM learning to the classroom

littleBits STEAM Student Set

LIB847 \$499.95

Sets you up for 16+ hours of STEM/STEAM teaching with 8 engaging challenges, and additional companion lessons. The set comes with 19 bits, 45 accessories and a booklet. We walk you through every step with comprehensive lessons and guides. Students engage with electronics by completing 8 challenges that progress in difficulty, with 10 companion lessons for educators. With the inclusion of Art in STEM, students are empowered to think creatively and design and engineer solutions to real-world problems. Comes with a 120+ page teacher guide. Find the full specs on our website.



A great way to get introduced to the world of the Arduino programming environment, without the breadboarding, soldering or wiring normally required.



Make your own Etch-a-Sketch™!



Includes arduino module

Includes:

- The kit includes everything you need to get started (battery + power included!) right out of the box.
- Build with 8 Getting Started sketches, including a DIY Etch-a-Sketch™, Mouse Control and hundreds more from Arduino's community!
- Communicate with software (Processing, MaxMSP, Flash etc.)
- Snap modules easily to 3 inputs and 3 outputs on the Arduino module, as well as additional I/O for advanced hardware interaction
- Download the Arduino software for free from www.arduino.cc

littleBits Arduino Coding Kit

LIB606 \$259.95

This kit contains everything you need to get started with electronics and programming. Make your own Etch-a-Sketch™! Program a visual display! We'll walk you through the basics using the Arduino programming environment, without the breadboarding, soldering or wiring normally required. Modules included are a bargraph, button, power, fork, Arduino, battery & cable, 2 dimmers and a servo Bit, and 2 Mounting boards.



littleBits Premium Kit – 14 Modules

LIB002 \$259.95

This set contains some of our absolute favourites, like the Slide Dimmer and the Servo Motor, so you can build the interactive creations you've been dreaming of. The Premium Kit is a sure-fire way to keep the creativity flowing! The set includes 14 littleBits modules.



Includes:

- Activity booklet
- 9V Battery + cable
- MotorMate
- Screwdriver
- Power module
- Slide dimmer module
- Pressure sensor module
- Roller switch module
- Sound trigger module
- Pulse module
- Vibration motor module
- Servo module
- 2 x Long LED module
- Fan module
- Branch module
- 2 x Wire module



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Build students' confidence to ask questions and solve problems

LEGO® Education WeDo 2.0 Curriculum Solution

LEG45300 \$269.95



This set is based upon the latest science standards and was created to enhance students' curiosity and science skills. The set is delivered in a storage bin along with sorting trays, labels, a Smarthub, a Medium Motor, Motion Sensor a Tilt Sensor and enough building elements for two students. The accompanying desktop and tablet supported software provides an easy-to-use programming environment and includes the WeDo 2.0 Curriculum Pack, which covers life, physical, earth and space sciences, as well as engineering. The accompanying eLearning program helps teachers to become confident users of the WeDo 2.0 Core Set.



Solution includes

- WeDo 2.0 Core Set 1
- WeDo 2.0 Software & Curriculum Pack* www
- WeDo 2.0 eLearning* www

A captivating science teaching solution

What's included in the Curriculum Solution?

Core Set ✓

Containing the LEGO® bricks and technology elements needed to make elementary students motivated and make science projects come to life.



<h4>Curriculum content ✓</h4> <p>Real life projects based on national standards to develop students practices within science, including engineering, technology and computing.*</p>	<h4>Teaching software ✓</h4> <p>Intuitive software including integrated curriculum content, easy drag and drop programming and teachers guide.*</p>	<h4>Assessment tools ✓</h4> <p>Project integrated assessment grids and rubrics for both teacher and student led assessment.*</p>	<h4>eLearning program ✓</h4> <p>Five eLearning modules to give full teaching support from implementation to activation.*</p>	<h4>Technical support ✓</h4> <p>Ongoing telephone and online support to help you with any questions.</p>	<h4>Community ✓</h4> <p>Access to the LEGO Education community of teachers for additional ideas, tips and new connections.</p>
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What can I add on?

<h3>Complementary products ✓</h3> <p>Rechargeable power add-on solution for easy battery management is available to supplement the WeDo 2.0 solution.</p>	<h3>Training and professional development ✓</h3> <p>Check our Professional Learning calendar on teaching.com.au to find training near you.</p>	<h3>Replacement Packs ✓</h3> <p>The ideal way to replace key LEGO elements for the WeDo 2.0 sets.</p>
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*Available for free download from LEGOeducation.com/downloads

Classroom Solutions

WeDo 2.0 Curriculum Solution Packs

WeDo 2.0 Curriculum Solution
LEG45300



WeDo 2.0 Add-On Power Pack
LEG54838



MTA Storage System Single
SUN8316

3rd Party Product **exclusive** **NEW**



MTA Storage System Double
SUN8326

3rd Party Product **exclusive** **NEW**



LEG45300-2K 4 students	\$499.95 SAVE \$39.95	2		
LEG45300-2KP 4 students	\$799.95 SAVE \$35.75	2	2	
LEG45300-3K 6 students	\$749.95 SAVE \$59.90	3		
LEG45300-3KP 6 students	\$1,169.95 SAVE \$83.60	3	3	
LEG45300-5K 10 students	\$1,229.95 SAVE \$119.80	5		
LEG45300-5KP 10 students	\$1,939.95 SAVE \$149.30	5	5	
LEG45300-5KS 10 students	\$1,329.95 SAVE \$169.75	5		1
LEG45300-5KPS 10 students	\$2,039.95 SAVE \$199.25	5	5	1
LEG45300-8K 16 students	\$1,929.95 SAVE \$299.65	8		
LEG45300-8KP 16 students	\$2,999.95 SAVE \$342.85	8	8	
LEG45300-8KS 16 students	\$2,079.95 SAVE \$299.60	8		1
LEG45300-8KPS 16 students	\$3,149.95 SAVE \$412.80	8	8	1
LEG45300-12K 24 students	\$2,879.95 SAVE \$359.45	12		
LEG45300-12KP 24 students	\$4,499.95 SAVE \$514.25	12	12	



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

Prepare your students for tomorrow's jobs



LEGO® MINDSTORMS® Education EV3 Curriculum Solution

LEG45544-1 **\$629.95**



This set contains everything you need to start teaching STEM and computer science using the exciting LEGO® MINDSTORMS® concept. It offers full teacher support, including STEM and computing teaching materials, and a comprehensive eLearning program.

The system includes the Intelligent EV3 Brick, a compact and powerful programmable computer that makes it possible to control motors and collect sensor feedback using the intuitive icon-based programming and data logging software that is delivered with the set.

The set is delivered in a sturdy storage bin with a sorting tray, three Servo Motors, five Sensors (Gyro, Ultrasonic, Colour and 2x Touch), a Rechargeable Battery, connecting cables and Building Instructions. Battery charger (LEG8887) is required and sold separately.

Solution includes

- LEGO MINDSTORMS Education EV3 Core Set 1
- EV3 Software and App* [Download] [www]
- EV3 Design Engineering Projects Curriculum* [www]
- EV3 Coding Activities* [www]
- EV3 eLearning* [www]

How to get ahead in STEM learning

The LEGO MINDSTORMS Education EV3 motivates students to design, build and program robots using motors, sensors, gears, wheels, axles and other technical components, to gain a better understanding of how technology works in real-world applications.

The solution enables students to understand and interpret two-dimensional drawings to create three-dimensional models; build, test, troubleshoot and revise designs; apply maths and science concepts on real-life applications; and master programming and data logging functions.



Classroom Solutions

EV3 Curriculum Solution Packs

LEGO Education EV3 Curriculum Solution
LEG45544-1



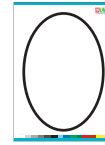
Battery Charger
LEG8887



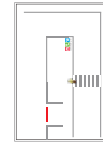
Multi-Charger
WLMC01



Robotics Training Mat
ROB014



Robotics Challenge Mat
ROB15



MTA Storage System Double
SUN8327



MTA Storage System Triple
SUN8337



Product Code	Students	LEGO Education EV3 Curriculum Solution	Battery Charger	Multi-Charger	Robotics Training Mat	Robotics Challenge Mat	MTA Storage System Double	MTA Storage System Triple
LEG45544-1K 2-3 students		1	1					
LEG45544-4 8 students		4	4		1			
LEG45544-4S 8 students		4	4		1		1	
LEG45544-5 10 students		5	5		1			
LEG45544-5S 10 students		5	5		1		1	
LEG45544-6 12 students		6	6		1			
LEG45544-6S 12 students		6	6		1		1	
LEG45544-8 16 students		8		1	1			
LEG45544-8S 16 students		8		1	1			1
LEG45544-10 20 students		10		1		1		
LEG45544-10S 20 students		10		1		1	2	
LEG45544-12 24 students		12		2		1		
LEG45544-12S 24 students		12		2		1	2	
LEG45544-15 30 students		15		2		1		
LEG45544-15S 30 students		15		2		1		2



Free Freight

Just add \$200 of Art & Craft, Stationery or Health & Hygiene to your order

mBot

Complexity: Intermediate to lower-advanced

Extendibility: Fully compatible with Makeblock platform and LEGO compatible

Programming Language/Software: mBlock, Scratch 2.0, Arduino, Java

Compatibility: Bluetooth version: iOS 7 or above, Android™ 2.3 or above - 2.4G version: PC or Mac

Age Group: 8+ years

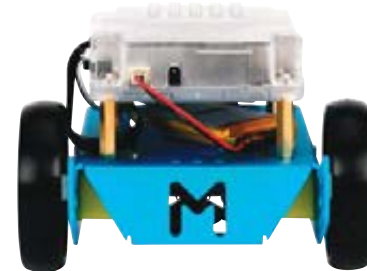
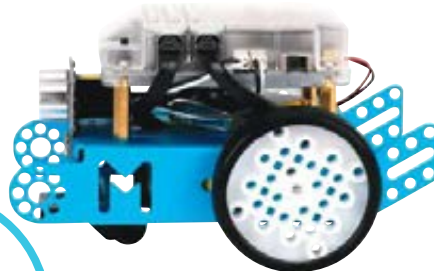
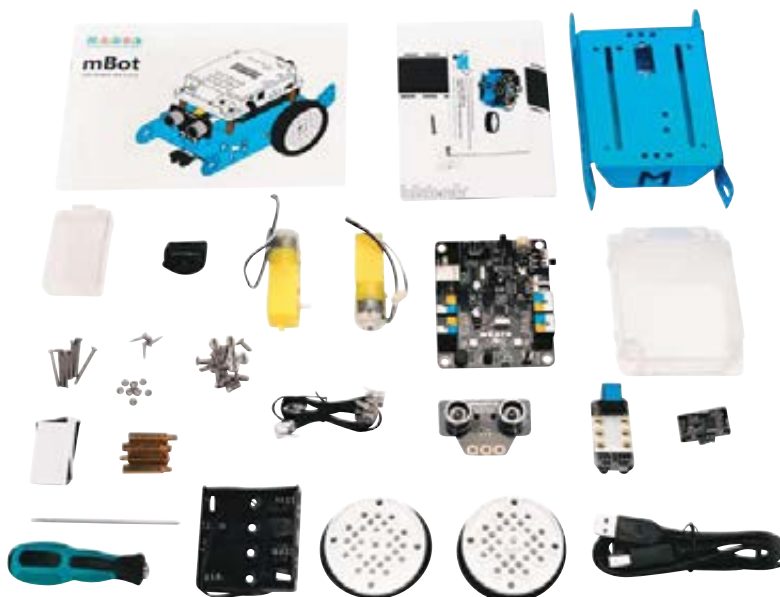
Curriculum Links: ACTDEK013/20/23/31/34/46

- ACTDEP014/15/16/18/25/26/28/36/37/39 - ACTDIK007/14

- ACTDIP010/11/17/19/20/27/29/30/40/41



mBot is an all-in-one solution to enjoy the hands-on experience of programming, electronics, and robotics. Working with mBlock inspired by Scratch 2.0, connecting with computers or smart devices via Bluetooth or 2.4G (different versions), this easy-to-assemble mBot provides infinite possibilities for you to learn STEM.



Set of 10
\$1,549⁹⁵
 SAVE \$249.55



Makeblock mBot V1.1

MB90053	Bluetooth Version – Each	\$179.95
MB90053-5	Bluetooth Version – Set of 5	\$799.95
MB90053-10	Bluetooth Version – Set of 10	\$1,549.95
MB90058	2.4G Version – Each	\$179.95
MB90058-5	2.4G Version – Set of 5	\$799.95
MB90058-10	2.4G Version – Set of 10	\$1,549.95

mBot is available in Bluetooth version or 2.4G version and comes with various basic pre-assembled options, including obstacle-avoidance car, line-following vehicle, remote control car, and can be used in multiple games.

Key Features

- Compatible with the Makeblock platform and most LEGO parts
- Electronic parts are based on the Arduino open source ecosystem
- Easy drag-and-drop software
- Input: Light sensor, button, infrared receiver, ultrasonic sensor, line follower
- Output: Buzzer, RGB LED, infrared emitting, two motors, 4 ports
- mCore programming board with four colour-labelled RJ25 connectors for easy wiring and expansion with more Arduino sensors
- Infinite extensibility, using any mechanical parts and electronic modules
- Change from Bluetooth to 2.4G or vice versa by adding the 2.4G Wireless serial (MB13030) or the Bluetooth Module (MB13035), sold separately. See page 20.

mBot Ranger

Complexity: Intermediate to advanced

Extendibility: Fully compatible with Makeblock platform

Programming Language/Software: mBlock, Makeblock HD, Scratch 2.0, Arduino, Java

Compatibility: Apple tablets: iOS 7.0 or later - Apple smartphone: iOS 8.0 or later - Android tablets/phones: Android 3.0 or later

Age Group: 8+ years

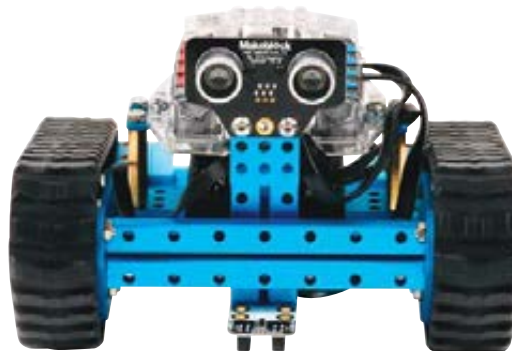
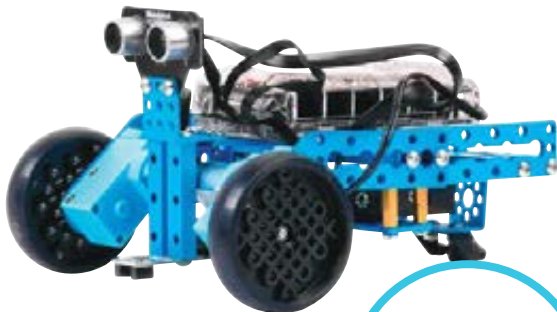
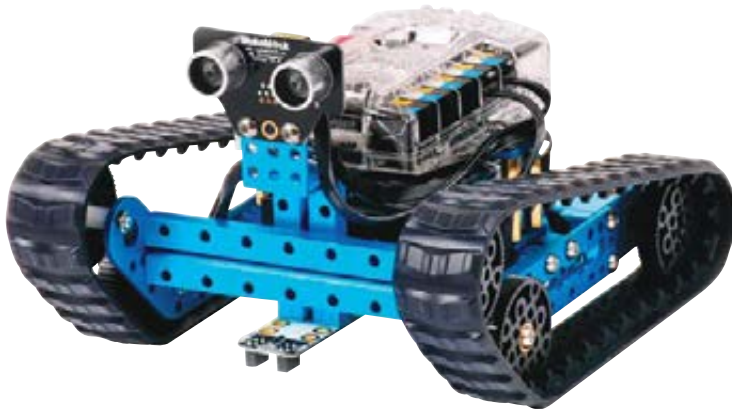
Curriculum Links: ACTDEK013/20/23/31/34/46

- ACTDEP014/15/16/18/25/26/28/35/36/37/38/39/49 - ACTDIK007/14

- ACTDIP010/11/17/19/20/22/27/29/30/40/41



mBot Ranger Robot Kit is a three-in-one STEM educational robot kit, which supports 3 building forms: robot tank, three-wheel racing car, and a self-balance car. Program & Control mBot Ranger via iPad, tablets, or laptop to start your exploration! Fine ready-to-use projects built-in the Makeblock HD app for immediate fun and play. mBot Ranger is fully compatible with mBlock to program on your PC or program from your iPad and tablets with an easy-to-use app – Makeblock HD.



Set of 10
\$3,099⁹⁵
 SAVE \$299.55



Makeblock - mBot Ranger - STEM Robot

MB90092	Each	\$339.95
MB90092-5	Set of 5	\$1,599.95
MB90092-10	Set of 10	\$3,099.95

The mBot Ranger comes with the Me Auriga mainboard based on open-source Arduino Mega 2560. It provides not only 6 on-board sensors, but also 10 extension ports that enables you to add more motors and sensors when needed.

Key Features

- Input: 6 x sensors: Light sensor, ultrasonic sensor, line follower, gyroscope, temp sensor, and sound sensor
- Output: buzzer, 12 LED lights, 2 motors
- Me Auriga main board with 10 ports, supporting DC motors, stepper motors, servo motors, smart servos, encoder motors, etc. (4 ports supporting up to 3.5A output, 6 ports supporting 5V 2.4A output)
- Compatible with Arduino Ide and RJ25 ports
- Supports Bluetooth and Bluetooth upgrade firmware



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Cubetto

Complexity: Beginners

Extendibility: Add the adventure pack for more activities

Programming Language/Software: The instruction blocks in combination with the interface board. Based on Arduino.

Age Group: Ages 3 to 6 years

Curriculum Links: ACTDEK004/34 - CTDEP006/7/9/15/16/18 - ACTDIK001/2 - ACTDIP004/10

PRIMO



Cubetto is a playful wooden robot that helps young children (3+) discover programming through storytelling, adventure and collaboration. It's the first coding toy of its kind to work without a screen or digital interface, and lets children learn to code before they can read or write.



Set of 10
\$3,099⁹⁵
 SAVE \$399.55

Cubetto - The Coding Robot

CUB001	Coding Robot	\$349.95
CUB001-5	Coding Robots - Set of 5	\$1,599.95
CUB001-10	Coding Robots - Set of 10	\$3,099.95

The Cubetto Playset makes coding accessible to children in preliterate years, introducing core programming concepts like debugging, the queue, and recursions, and encouraging computational thinking: the process of breaking down tasks into a logical sequence of steps to reach an objective. By taking coding away from the screen, and using a hands-on, block-based programming language, Cubetto develops these skills and logic in a way specifically tailored for early learning.

Cubetto is made up of 3 separate elements: a friendly wooden robot, a tangible interface board, and a 16 piece instructions blocks set that make up a programming language you can touch. The playset comes with a charmingly illustrated 1x1m world map and story book that make every play session with Cubetto a unique and memorable adventure. Children use the instruction blocks (forward, left, right and function) on the interface board to create a sequence. Cubetto and the Interface board communicate wirelessly, and Cubetto is powered by 6 AA batteries.



Cubetto - Extra Blocks
 CUB002 Set of 16 \$39.95

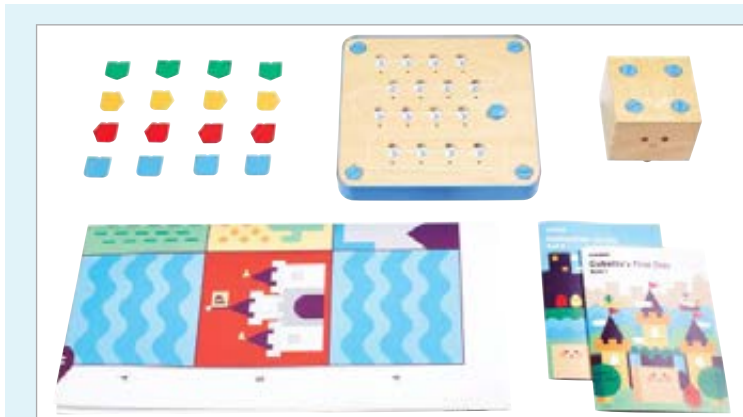
This set consists of 16 additional instruction blocks to either replace missing blocks or expand your current set. The blocks are supplied in a handy storage bag.



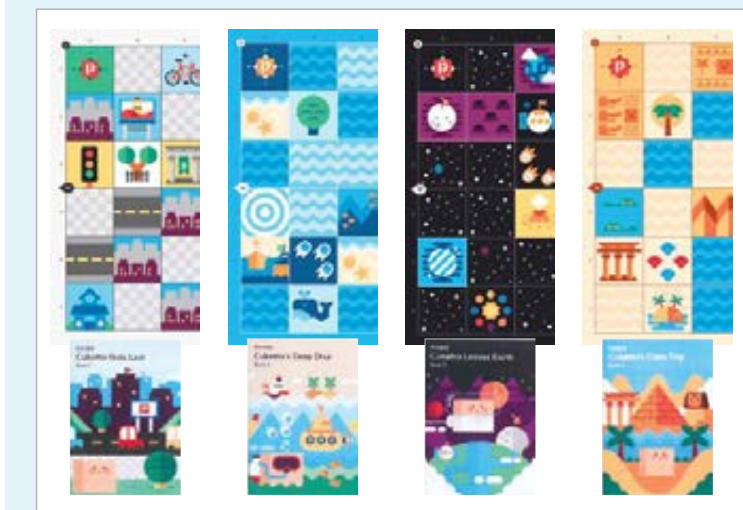
**Cubetto Adventure Pack
- 4 Maps & Story Books**

CUB003 Each Pack \$59.95

Add more creativity and value to Cubetto with this adventure pack. Included are 4 additional maps (1x1m each) and 4 story books, accompanying the maps.



~~\$1,809.70~~
\$1,639⁹⁵
SAVE \$169.75



Cubetto & Adventure Pack

CUB001K Each Pack \$379.95
CUB003K Kit \$1,639.95



Expand the learning adventure! CUB001K includes 1 Cubetto (CUB001) and one Adventure Pack (CUB003). The kit (CUB003K) includes 5 Cubetto Robots (CUB001), and 1 Adventure Pack (CUB003).

3D Printers

Complexity: Beginners to advanced

Extendibility: Use the handheld scanner (not included) to scan and print any object. Print parts for the Humanoid Bolide (not included and sold separately) to create your own personalised robot.

Programming Language/Software: XYZware (File types: .stl and XYZ Format (.3w))

Compatibility: Windows 7 and above, Max OSX 10.8 and above (64-bit)

Age Group: 8+ years

Curriculum Links: ACTDEK004/13/34/43

- ACTDEP005/6/7/14/15/16/24/25/26/35/36/37/48/49/50



Become your own manufacturer and create 3D objects with ease. XYZ 3D printers come with XYZware which is software for designing, customising, and printing digital 3D models. 3D printing allows for exploration of objects that might not be readily available in the classroom, improves design skills and production processes, and allows students to analyse a prototype they have build. 3D printers are the future for STEM related core lessons.

Da Vinci JNR 1.0 3D Printer by XYZprinting MTT0173JR \$699.95

Big things come in small packages. Don't let its slimmer and lighter look fool you, the da Vinci Jr. has a robust build size of 15 x 15 x 15cm and a resolution of 100 to 400 microns. Its design allows for the inclusion of an auto-feeding filament system, which takes the PLA filament to the extruder, and ensures that the filament is loaded properly and is ready to print.

Key Features

- Safety-enclosure - Enclosed printing area and non-heating bed
- Stand Alone - Built-in SD card slot allows users to print from SD card directly
- Easy Loading Filament
- Eco-Friendly - Supports PLA material, the most highly efficient biodegradable plastics
- USB connection for printing from your PC
- Single nozzle with print mode 100 - 400 microns
- Supported operating systems include: Windows 7 and above, Mac OSX 10.8 and above (64-bit)



Da Vinci 1.0A 3D Printer by XYZ Printing MTT01731 \$999.95

Big with its robust build size of 20x20x20cm, the da Vinci 1.0 is on average 69% bigger than all competing 3D printers for a fraction of the cost! The da Vinci 1.0 is ready-to-go right out of the box. This plug-and-play 3D printer features easy-to-install filament cartridges for quick refills and filament swaps. It features a fully-enclosed design which protects the users from the high temperatures required to print.

Key Features

- Safety-enclosure - The enclosed printing area bed ensures a safe printing environment
- Plug-and-Play printer. No assembly required
- Easy Loading Filament - Makes filament detecting and replacing easy
- USB connection for printing from your PC
- Single nozzle with print mode 100 - 400 microns
- Supported operating systems include: Windows 7 and above, Mac OSX 10.8 and above (64-bit)
- ABS & PLA filament with a diameter of 1.75 mm



Handheld 3D Scanner by XYZprinting MTT0173S \$429.95

Powered by Intel RealSense Technology, the Handheld 3D Scanner is fast in both scanning ability and processing speed. It allows for great scanning result and reliability. It is able to clip-on the back of a tablet, laptop, or any other device with a USB 3.0 connection for high mobility. Fully integrated with XYZprinting's 3D printers, users can print their desired objects directly from their laptops at any time, or share it digitally. Visit our website for full specs and compatibility with your device.

new

~~\$5,709.00~~
\$5,299⁹⁵
 SAVE \$409.10



Da Vinci 3D Printer Classroom Pack

MTT1073K \$5,299.90

The ideal classroom kit for all your 3D printing needs. This kit includes 5x Da Vinci Jrn 1.0 3D printers, 1x Da Vinci 1.0A 3D printer, 1x handheld 3D scanner and a selection of 9x different PLA filaments suitable for the Da Vinci Jrn, and 2x ABS and 2x PLA filaments suitable for the Da Vinci 1.0A.

new

Da Vinci 1.0 3D Printer Pro 3-in-1 by XYZprinting

MTT0173-P \$1,799.95

With a built-in scanner, optional laser engraving add-on capability, and an open source filament system that allows you to print in third-party ABS and PLA 1.75mm filaments, the da Vinci Pro 3-in-1 is the perfect machine for becoming your own manufacturer.



Specifications Scanner

- 360-degree automatic rotating platform
- Dual-laser scanning technology for distortion-free capture of every single detail
- Automatic imaging takes only 5 minutes
- Finished scans are fully editable
- Multi-scan function: Scan your models in multiple angles and the software will merge them into one image to provide the best possible results

Specifications Printer

- 20 x 20 x 19cm print dimensions
- The aluminium print bed allows for an even distribution of heat
- Capable of using third party 1.75mm ABS and PLA filament
- New and intuitive calibration system that uses specially designed knobs and detection software for easy use

Filaments Each \$59.95

Create colourful projects with a wide range of coloured filaments. The DaVinci Junior 3D printer can be used with PLA filaments, the DaVinci 1.0A 3D printer can be used with both PLA and ABS filaments. Each filament is 600 gram. Ventilation is required when using ABS. For a full comparison of PLA and ABS, please refer to our website.

DaVinci 1.0A & Pro 3-in-1 PLA Filament

	MTT0173B	Black
	MTT0173N	Nature
	MTT0173TA	Tangerine
	MTT0173CY	Clear Yellow
	MTT0173NG	Neon Green
	MTT0173CG	Clear Green

DaVinci 1.0A & Pro 3-in-1 ABS Filament

	MTT0173ABK	Black
	MTT0173ASW	Snow White
	MTT0173AVT	Violet
	MTT0173AGP	Grape Purple
	MTT0173ASB	Steel Blue
	MTT0173AV	Viridity
	MTT0173ABG	Bottle Green
	MTT0173AO	Olivine
	MTT0173ACY	Cyber Yellow
	MTT0173ANY	Neon Yellow
	MTT0173AYW	Yellow
	MTT0173ASO	Sun Orange
	MTT0173ARD	Red
	MTT0173ANM	Neon Magenta

Da Vinci Junior PLA Filament

	MTT0173PB	Black
	MTT0173PPW	Pearl White
	MTT0173PN	Nature
	MTT0173PR	Red
	MTT0173PCT	Clear Tangerine
	MTT0173PY	Yellow
	MTT0173PNG	Neon Green
	MTT0173PCG	Clear Green
	MTT0173PCB	Clear Blue



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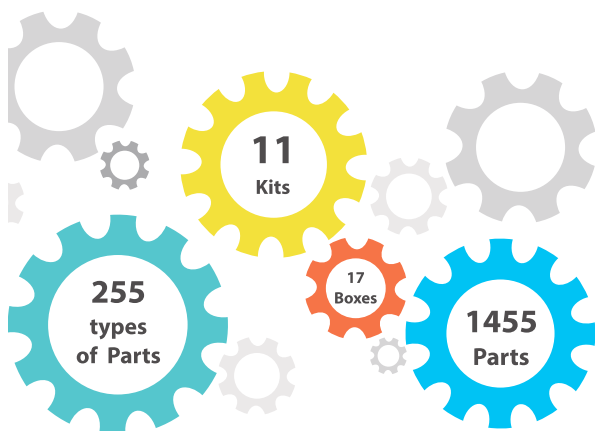
The Makerspace kit includes 17 boxes divided into 11 categories



MakerSpace Kit

MB99061M 1455 pieces \$9,999.95

Makeblock is a block-building platform including more than 300 types of metal building blocks, electronic modules and software as well as an open-source creativity platform including various classic creativity kits. The Makerspace Kit consists of 11 types of kits, packed into 17 boxes of mechanical parts, electronic parts and tools and accessories. Scientifically proportioned and flexibly configurable, the kit is designed for various ages and educational institutions. Software is also provided for MakerSpace, including complete instructions, integrated operation plans and workshop cases of different difficulties. For a full list of components included in this kit, please refer to our website.



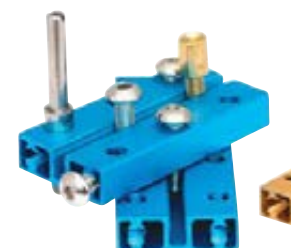
High-strength aluminium alloy material

Most of the Makeblock parts are made of 6061 aluminium alloy, which is bright in colour, reliable in quality and sturdy in construction.



Open compatibility

Makeblock is compatible with various common industrial standard components, e.g. bearing, timing belt, stepper motor, etc. as well as parts of the LEGO building blocks, so you are able to select your required parts within a wide range at low cost.



Unique thread groove design

Makeblock's well-designed thread grooves making it easier to connect at any position without any nuts, so the parts can be connected with endless variations like with LEGO blocks. Infinite part combinations support various modes of transmission and motion to meet various needs.



Lowering the threshold of entry

Makeblock works with the unique RJ25 adaptors and has a colour coded system. This makes it easy to connect a variety of motors and sensors without soldering.



Home Lab: Make Your Own Science Experiments

PEN8449 \$32.95

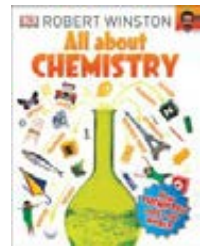
Stir up some sticky slime, build a Solar System with rubber bands, power a speed boat using soap, and construct an erupting volcano. Home Lab is packed with 28 brilliant projects, using clear step-by-step instructions, everyday ingredients that can be found around the house.



101 Great Science Experiments

PEN5131 \$18.95

With 101 science experiments for kids inside covering topics such as colour, magnets, senses, electricity and much more you'll be discovering the laws of science before your eyes.



All About Chemistry

PEN6577 \$21.95

All About Chemistry takes an amazing look at the what, why and how of science. From the geeky Greeks to explosive elements kids can enter a world of discovery as they find out the extraordinary way our world works. It's chemistry, but not as you know it.



Coding in Scratch for Games Made Easy

PEN3269 \$14.95

Coding in Scratch for Games Made Easy is an engaging, fun guide to coding games in Scratch, the easy-to-use (and free to download!) visual code that provides a gateway to more complicated coding languages.



Coding With Scratch Made Easy

PEN3276 \$14.95

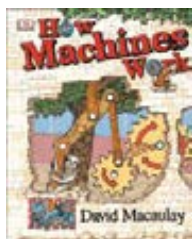
Coding with Scratch Made Easy is a playful, hands-on introduction to working with Scratch, the easy-to-use - and free to download! - visual code that provides a gateway to more complicated coding languages.



How Super Cool Stuff Works

PEN8456 \$42.95

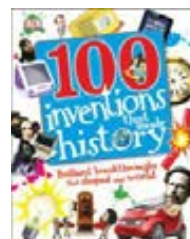
How Super Cool Stuff Works is a cutting edge guide exploring how incredible new technologies are shaping the modern world. Kids will love the fun laptop style cover and layout throughout.



How Machines Work

PEN3385 \$37.95

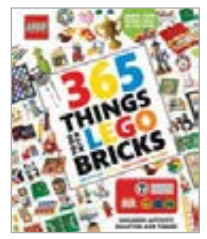
How Machines Work uses pop-ups and award-winning illustrations to demonstrate the technology of six simple machines. How Machines Work will gear kids up for scientific and engineering greatness!



100 Inventions That Made History

PEN0980 \$29.95

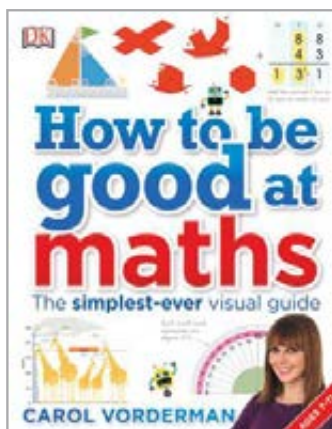
100 Inventions That Made History is no ordinary history book. Take a look at the trailblazing inventions that have advanced technology and transformed the way we live, as well as the gadgets and gizmos we couldn't live without!



365 Things to Do with LEGO® Bricks

PEN9259 \$32.95

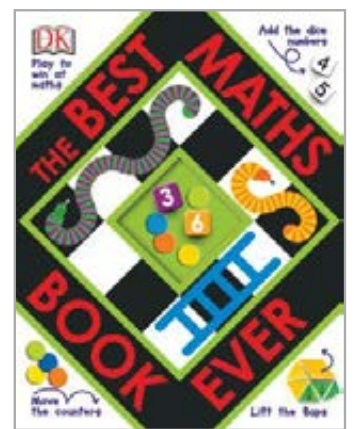
365 Things to do with LEGO® Bricks inspires you to look at your LEGO bricks in new and exciting ways and enjoy LEGO fun every day of the year.



How to be Good at Maths

PEN5988 \$37.95

How to be Good at Maths, the simplest-ever visual guide to maths. Unlike other maths workbooks How to be Good at Maths introduces each topic with colourful pictures, real-life examples and fascinating facts, ideal for reluctant mathematicians or revising before a test making maths is fun and easy.



Best Maths Book Ever

PEN2395 \$28.95

The amazing interactive paper engineering in The Best Maths Book Ever will capture and hold your child's attention, making practising maths and play one and the same. Kids will learn key maths concepts while having a blast. Everybody wins with The Best Maths Book Ever.



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Save with our Super Buys

new

~~\$235.50~~
NOW ONLY \$199.95
 SAVE \$35.55



x5



x5



Makerspace Design & Create Kit

MS120K

\$199.95

This kit is a great introductory set to combine design, art, technology, engineering, maths and science and to start building. Whether this is a craft project, to design a perfect architectural structure, a 3D maths shape, accessory, bridge, tower or anything else your imagination guides you.

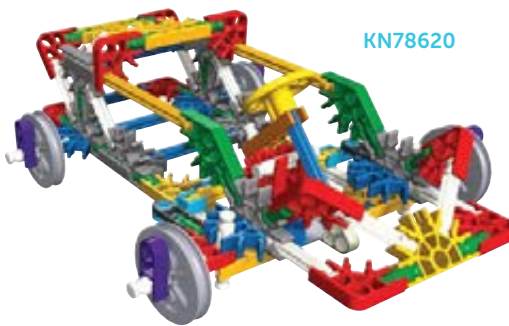
Kit includes

- 5 sets of 1000 Large Paddle Pop Sticks (JM67)
- 5 sets of 1000 Small Paddle Pop Sticks (SH956)
- 4 Low Melt Glue Guns (TH120)
- 10 sets of 10 Low Melt Glue Sticks (TH121)
- 80 Litre Storage Container (K80L)



x10

x4



KN78620

new

~~\$209.85~~
NOW ONLY \$189.95
 SAVE \$19.90

K'NEX Introduction to Simple Machines

KN78610K	Kit	\$189.95
KN78610	Levers & Pulleys	\$69.95
KN78620	Wheels Axles & Inclined Planes	\$69.95
KN78630	Gears	\$69.95

STEM Education focuses on science, technology, engineering and mathematics concepts taught through problem-solving, discovery, exploratory learning and critical thinking. These K'NEX models offer hands-on learning opportunities that these learning outcomes. The inquiry-based lessons challenge students as they build, investigate, problem solve, discuss, and evaluate scientific and design principles in action. Each set comes with teacher's guide. Find more information about each individual set on our website.



KN78630



KN78610