

Kid K'NEX Budding Builder's Tub (85618)*Age: 3+**100 Kid K'NEX pieces*

Hundreds of creations are possible with the Kid K'NEX Budding Builders Tub.

Kid K'NEX is a version of K'NEX with larger, chunkier rods and connectors, that small hands aged 3+ can easily join together.

Aspiring K'NEX builders can choose from 100 colourful parts and pieces, and 50 amazing building ideas, to create everything from a fish helicopter to a robot puppy!

The Kid K'NEX Budding Builders Tub offers endless possibilities for a child's imagination to grow.

**K'NEX 3-in-1 Classic Amusement Park building set (17035)***Age: 9+**744 Classic K'NEX pieces*

Celebrate almost 25 years of K'NEX with the 3-in-1 Classic Amusement Park Building Set.

One of the original K'NEX building sets, this set demonstrates everything that K'NEX stands for.

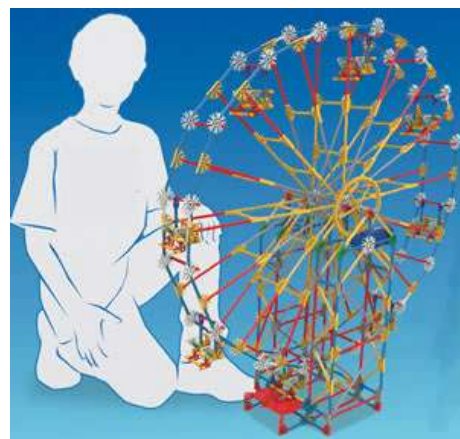
The set can be used to build the following three large motorised models:

- ~ Ferris wheel nearly 3ft (.87m) high
- ~ Swing Ride
- ~ Boom ride

The instruction book includes step-by-step instructions for the first two models. Step-by-step instructions for the Boom ride are available online. Models can be built one at a time. Requires 2 "AA" batteries (not included).

This is also an excellent set if you want to build motorised K'NEX models to your own design.

Age with parental help: 7+



K'NEX Big Ball Factory building set (52443)*Age: 12+**3152 Classic K'NEX pieces*

Build a classic, nostalgic K'NEX model just like you remember with the 20th Anniversary Big Ball Factory.

After 20 years in the K'NEX vault, we are bringing back this classic model to thrill our most loyal fans.

Over 3,100 Classic K'NEX pieces complete this gigantic ball machine that stands over 1.2m (4 feet) high.

Watch as the 4 balls travel down 5 different paths - which way will the ball go next? Just turn the motor on and watch it go!

Included are easy to follow full-colour instructions. You can even download instructions for a second Large Ferris Wheel model. Models can be built one at a time.

Requires 2 "AA" batteries (not included).

Perfect for advanced builders from 12 to 99.

**K'NEX Grandfather Clock building set (89774)***Age: 16+**9000 Classic K'NEX pieces*

Take on the ultimate K'NEX building challenge with the Grandfather Clock building set.

With over 9,000 classic K'NEX parts and standing over 1.8m (6ft tall), the Grandfather Clock is the LARGEST K'NEX set ever created.

Follow the colour-coded instructions for hours of building fun.

The Grandfather Clock is a real working clock, with moving hands, a swinging pendulum and sound chimes.

Includes a mains-powered 12v motor, and a battery-powered motor. Requires 3 "AA" batteries (not included).

**K'NEX Hornet Swarm coaster (17038)***Age: 9+**617 Micro K'NEX pieces*

Buzz into action with the K'NEX Hornet Swarm Roller Coaster!

Build a motorized, moving roller coaster that stands up to 81cm (2.7 feet) tall, using easy-to-follow, step-by-step building instructions.

The set includes a motor, chain lift, coaster car and over 5 metres (19 feet) of track. An alternative coaster design can also be built, from downloadable instructions.

Motor requires 2 "AA" batteries, not included.

Age with parental help: 7+



K'NEX Revolution Ferris Wheel (15408)*Age: 7+**344 Classic K'NEX parts*

The K'NEX Revolution Ferris Wheel building set lets you and your children experience interactive fun while operating your very own amusement ride.

The set contains colorful rods and connectors designed to create a scale-model Ferris wheel that's almost 2 feet (58cm) tall.

The pieces can attach and detach from one another easily, making it fun to assemble. This building set features a battery-powered motor that spins the ride in either direction using authentic, rail-driven rotation, just like a real Ferris Wheel!

Requires 2 "AA" batteries (not included).

**K'NEX Web Weaver roller coaster building set (45717)***Age: 9+**430 Classic K'NEX pieces*

This is one web you'll want to get caught in - the K'NEX Web Weaver Roller Coaster Building Set!

Use the included parts and pieces to send the unique air-propelled coaster car through horizontal and vertical thrills.

Once done building, turn off the lights - this coaster glows-in-the-dark! Set includes over 430 K'NEX parts and pieces, including rods, connectors, glow-in-the dark track and an air-propelled coaster car.

Additionally, builders can download instructions for a second roller coaster model.

Age with parental help: 7+



K'NEX Amusement Park Experience (78890)*Age: 10+**2264 Classic K'NEX pieces*

Fascinating K'NEX set that can build 13 different amusement park rides, including a large Roller Coaster.

Sufficient pieces to build two fairground ride models at the same time, or one Roller Coaster plus one fairground ride.

90-page teacher's guide. Includes 2 blue battery motors. Supports 8 students.

**K'NEX Simple machines deluxe set (79565)***Age: 8+**3447 Classic K'NEX pieces*

A huge K'NEX set, designed for use as a general-purpose K'NEX resource for schools and colleges. Supports 20-30 students working in teams of 2-3. Includes:

- ~ a mains-powered 12v motor
- ~ instructions to build a science fair model, the 4' tall Big Ball Factory
- ~ 5 teacher's guides (Levers, Pulleys, Gears, Wheel & Axles, Inclined Planes), with instructions to build the following 57 models:

Pulleys: Pulley stand – fixed pulley, Pulley stand – moveable pulley, Pulley stand – combination pulley, Flagpole, Sailing boat, Clothes line, Elevator, Block and Tackle, Crane

Levers: Balance, See-saw, Second class lifter, Third class lifter, Catapult, Handcart, Rowing boat, Scissors, Door, Wheelbarrow, Fishing Rod, Hammer, Tweezers, Lever mobile, Rubber band scale

Gears: Spur gears, Bicycle gears, Crown gear, Rack and pinion, Worm and worm gear, Planetary gear, Simple transmission, Car window, Lawnmower, Egg beater, Food mixer, Axle and axle with differential, Clock

Inclined planes: Roller coaster ramps, Moving truck, Splitting wedge, Chisel, Axe, Hand drill, Archimedes screw, Propeller, Playground ride

Wheels and axles: Spinner, Wishing well, Wrench, Screwdriver, Ferris wheel, Water wheel, Paddlewheel boat, Windmill, Measuring wheel, Wagon, Carousel.

Former product code for this set was 79520.



K'NEX STEM Explorations Gears building set (79318)*Age: 8+**143 Classic K'NEX pieces*

The fascinating K'NEX Gears building set allows 1-2 children to build 3 geared models: a Crank Fan, a Car Window and an Egg Beater.

The printed instruction booklet provides instructions for the crank fan, and details of some interesting experiments that can be performed using this model.

Instructions and experiments for the other two models are then available online.

When used in an educational setting, the set will further the children's knowledge and understanding of Science, Technology, Engineering and Math (STEM) concepts, including gear configurations, gear ratios, rotational speed and mechanical advantage.

Age with parental help: 6+

**K'NEX STEM Explorations Levers and Pulleys building set (***Age: 8+**139 Classic K'NEX pieces*

The K'NEX Levers and Pulleys building set allows 1-2 children to build 3 models: a Balance, a Wheelbarrow and a Sailboat.

The printed instruction booklet provides instructions for the balance, and details of some interesting experiments that can be performed using this model.

Instructions and experiments for the other two models are then available online.

When used in an educational setting, the set will further the children's knowledge and understanding of Science, Technology, Engineering and Math (STEM) concepts, including lever classes, pulley systems, resistance, effort and mechanical advantage.

Age with parental help: 6+



K'NEX STEM Explorations Vehicles building set (79320)*Age: 8+**131 Classic K'NEX pieces*

The K'NEX Vehicles building set includes two K'NEX motors.

The set allows 1-2 children to build 7 vehicle models with different power sources, including a spring motor, rubber band power, wind power and push-power.

The printed instruction booklet provides instructions for a spring-motor-powered racer and a rubber band racer, and details of some interesting experiments that can be performed using the second of these models.

Instructions and experiments for the other five models are then available online.

When used in an educational setting, the set will further the children's knowledge and understanding of Science, Technology, Engineering and Math (STEM) concepts, including potential & kinetic energy, velocity, acceleration, motion and graphing.

Age with parental help: 6+



Kid K'NEX Classroom set (78698)*Age: 3+**225 Kid K'NEX pieces including bricks*

A large Kid K'NEX set that includes Kid K'NEX bricks. 23 different models can be built from colourful pattern cards, and children also love building models to their own design.

When used in school, supports 10-12 children.

**Kid K'NEX Group set (78750)***Age: 3+**131 Kid K'NEX pieces*

An ideal Kid K'NEX set for the home, nurseries, primary schools, clubs and family learning. 8 different models can be built from colourful pattern cards, and children also love building models to their own design.

Includes 10 eyes and 2 ears/wings. When used in school, suitable for 6-8 children in Early Years or KS1.

**Kid K'NEX Transportation set (78830)***Age: 3+**229 Kid K'NEX pieces*

A large Kid K'NEX set that includes wheels for making a range of vehicles, including cars and diggers. Good for home, nursery, school and family learning.

Builds 9 models from full colour building cards.

Includes 20 truck wheels and 16 small wheels. When used in school, supports 8-10 children.

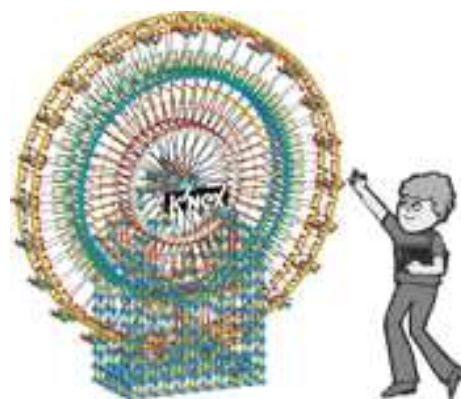
**K'NEX 6 foot Ferris Wheel set (89790)***Age: 16+**8550 Classic K'NEX pieces*

Take on the ultimate K'NEX building challenge with the 6-Foot Ferris Wheel building set!

With 8,550 colourful classic K'NEX parts, this is one of the largest K'NEX building sets of all time - both in piece count, and in height.

Follow the colour-coded instructions to build this towering Ferris Wheel one piece at a time, for hours of building fun. Then switch on the powerful, plug-in motor to bring the ride to life.

Recommended for expert builders ages 16+.



K'NEX Classic Constructions 70-model building set (17435)*Age: 7+**705 Classic K'NEX pieces*

A large chest containing 705 classic K'NEX parts, with instructions to build 70 K'NEX models. These include simple models for beginners, and more challenging models for K'NEX enthusiasts.

The instruction book provides building instructions for 14 models, with detailed instructions for a further 56 models available online. Most models can be built one at a time.

The sturdy storage chest encourages tidying up, and is large enough to store even partially built models.

Age with parental help: 5+

**K'NEX Computer Control set (79017PK)***Age: 8+**699 classic K'NEX pieces*

Dynamic STEM set challenges students to build and control K'NEX models using the K'NEX Computer Control interface.

Students write programs to control on-screen K'NEX models using the software included, then download them into the interface's memory and use them to operate student-built K'NEX models.

Build 5 K'NEX models, one at a time. Models are fully functioning replicas of real-world machines and include a Sliding Door, Elevator, Opening Bridge, Oscillating Fan and Super Spinner Ride.

Key Concepts include Design Process/Engineering Design Process, Systems and Organization, Communication of Mathematical thinking, Forces, Energy & Motion, Troubleshooting and optimization, Exploratory learning and more.

Compatible with interactive whiteboards. PC Compatible.

Set contains K'NEX Computer Control Interface and software, 2 motors, 3 LEDs, 1 Buzzer, 2 Push Button Switches, 2 Reed Switch, 4 Magnets, building instructions, student challenges and teacher's guide.



K'NEX Discover Control set (79013PK)*Age: 6+**336 classic K'NEX pieces*

STEM concepts come to life as students build and control K'NEX models using the K'NEX Discover Control Box.

The control box is an intelligent box that can remember the order and duration in which switches are pressed, and the time between the presses, then play back from memory. Stores up to 64 actions and allows for multiple outputs (motors, LEDs, buzzer) to be controlled simultaneously.

Build 5 K'NEX models, one at a time. Models are fully functioning replicas of exciting real-world amusement park themed models and include Gateway, Spinning Carpet Ride, Double Ferris Wheel, Swing Ride and a Tramcar.

Includes Discover Control box, mains adaptor, 2 motors, 2 LEDs, 1 Buzzer, and building instructions, student challenges and teacher's guide. The latter three items are supplied on a PC-compatible CDROM.

A major advantage of the Discover Control box is that it does NOT require a computer for its operation, as all functionality is controlled via the switches on the control box. However, PC-compatible software is provided in the set, which allows students to simulate the operation of the control box on their computer.

**K'NEX DNA, Replication and Transcription set (78780)***Age: 10+**521 Classic K'NEX pieces*

A specialised K'NEX curriculum set that allows students to build DNA and mRNA molecules, and learn about phosphate groups, deoxyribose sugars, colour-coded hydrogen bonds, four codons and colour-coded nucleotides. Builds 7 different models from instructions, one at a time, namely: Basic DNA molecule, Basic double helix, Flexible double helix, DNA replication, Daughter double helix, Large DNA molecule/double helix, DNA transcription.

Supports 2-4 students working as a team. Suitable KS4, FE, HE. Includes a 44-page Guide which contains a wealth of information for teachers and educators on DNA, Replication & Transcription, and 7 comprehensive lesson plans.

**K'NEX Elementary maths and geometry set (78720)***Age: 6+**142 Classic K'NEX pieces*

A K'NEX curriculum set that helps younger pupils learn about numbers, shapes and symmetry. Builds 44 models from instructions, including squares, rectangles, trapezoids, rhombi, prisms, triangles and quadrilaterals.

Includes 50-page Curriculum guide on CDROM. Supports 2-4 pupils working as a team.



K'NEX Energy, Motion & Aeronautics set (79621)*Age: 10+**1430 Classic K'NEX pieces*

This exciting set helps students learn about real-world concepts and principles in the continually expanding field of engineering. Developed in partnership with the NASTAR (National AeroSpace Training and Research) Center, the realistic and fun models allow three groups of students to simultaneously explore Newton's Laws, mechanical systems, projectile motion, airplane flight surfaces, aeronautic and aerospace training devices, parachute technology, optical illusions, and much more.

The comprehensive teacher's guide includes lesson plans, background information, teacher notes and reproducible worksheets.

Builds 9 models, three at a time. Supports up to three groups of 2 - 3 students working in teams.

**K'NEX Forces, Energy and Motion set (78790)***Age: 10+**442 Classic K'NEX pieces*

The Forces, Energy & Motion set offers an exciting, hands-on opportunity to explore fundamental physical science concepts.

Includes 2 blue battery motors, 2 flywheel motors, and 4 transparent spring motors. Instructions to build 11 models; 4 of most can be build simultaneously.

Comprehensive teacher's guide with 7 enquiry-based lesson plans.

Key Concepts: Potential Energy (Gravitational & Elastic) ~ Speed/Velocity ~ Kinetic Energy ~ Friction ~ Inertia ~ Motion ~ Force.

Models included: Tank Roller ~ Short Rubber Band Racer ~ Rubber Band Racer with Mass Holder ~ Wind Powered Vehicle ~ Pull String Flywheel Racer ~ Three Battery Powered Racers (Direct Drive, Geared Up, and Geared Down) ~ Three Spring Powered Vehicles (Spring Racer, Spring Racer with Mass Holder and Spring Powered Trike)

Supports 8-12 students working in groups of 2-3.



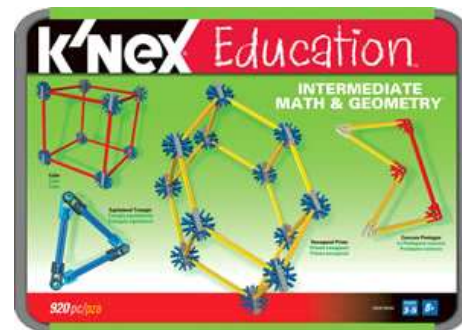
K'NEX Intermediate maths set (79028)*Age: 9+**920 Classic K'NEX pieces*

A K'NEX curriculum set that helps pupils to develop maths skills through active, constructive learning.

Builds 28 models from colour transparency and black line master activity cards.

Educator's Guide. Supports up to 12 students working in pairs. Key Concepts:

- ~ 2-dimensional shapes and shared attributes
- ~ 3-dimensional shapes
- ~ Lines and Line segments
- ~ Rays and angles
- ~ Congruence and similarity
- ~ Symmetry and position
- ~ Sequencing and patterning
- ~ Rounding and estimating
- ~ Comparing fractions

**K'NEX Intro.To Simple Machines: Gears set (78630)***Age: 8+**198 Classic K'NEX pieces*

A fascinating K'NEX set allowing 7 different geared models to be built - Fan, Car window, Blender, Phonograph, Eggbeater, Stationery bike and Chainsaw.

When used at school or college, enables teachers help their students to understand the principles of gears. Supports 2-4 students working as a team.

Includes 51-page teacher's guide on CDROM, which contains a wealth of information on gears and 5 comprehensive lesson plans.

**K'NEX Intro.to Simple Machines: Levers & Pulleys set (7861)***Age: 8+**178 Classic K'NEX pieces*

K'NEX set allowing 8 different models based on levers and/or pulleys to be built - Seesaw, Balance, Wheelbarrow, Hockey stick, Scissors, Flag pole, Yacht and Block & Tackle.

When used at school, enables teachers to help their pupils to understand the principles of levers and pulleys. Supports 2-4 pupils working as a team.

Includes 61-page teacher's guide on CDROM, which contains a wealth of information on Levers & Pulleys and 9 comprehensive lesson plans.



K'NEX Intro.to Simple Machines: Wheels & Axles set (78620)*Age: 8+**221 Classic K'NEX pieces*

K'NEX set allowing 7 different models based on wheels, axles and inclined planes to be built - Well, Paddleboat, Steering wheel, Steep ramp, Long ramp, Wedge and Hand drill.



When used at school, enables teachers to help their pupils to understand the principles of wheels, axles and inclined planes. Supports 2-4 pupils working as a team.

Includes 48-page teacher's guide on CDROM, which contains a wealth of information on Wheels & Axles and 7 comprehensive lesson plans.

K'NEX Intro.To Structures: Bridges set (78640)*Age: 8+**207 Classic K'NEX pieces*

Build 13 different bridges, at home, school or college.

All the bridge models in the instruction book are based on real-life bridge types, including Truss, Beam, Cantilever, Bascule, Arch, Suspension and Cable-stayed bridges. You can also build bridges to your own design.

When used at school or college, enables teachers help their students to understand the principles of bridges and structures. Supports 2-4 students working as a team.



Includes 76-page teacher's guide on CDROM, which contains a wealth of information on bridges and 10 comprehensive lesson plans.

K'NEX Maker kit Large (78497)*Age: 6+**863 Classic K'NEX pieces*

An attractive larger K'NEX set for your Makerspace!

The Maker Kit Large comes with enough classic K'NEX parts for 2-3 students to be building at the same time.

100 unique building ideas are included to spark imaginations, 15 of which may be found in the full-colour instruction book, and a further 85 as online downloads.

Once your budding Makers know how to use the parts, they'll soon be able to design and create their own DIY projects.

Also increasingly popular as a larger educational K'NEX set for the home.

The set comes in a robust plastic tray with dividers, allowing sorting of parts into compartments, for ease of selection.



K'NEX Real bridge building set (78680)*Age: 10+**2282 Classic K'NEX pieces*

Superb large K'NEX set that builds 1.5m (5 foot) long replicas of seven famous bridges, including:

- ~ Tower Bridge in London
- ~ Firth of Forth Bridge in Scotland
- ~ Golden Gate Bridge in San Francisco
- ~ Sydney Harbour Bridge in Australia
- ~ Chesapeake bridge in Maryland, USA
- ~ Dames point bridge in Florida, USA
- ~ Astoria bridge in Oregon, USA



Teacher's guide includes characteristics of each bridge type, investigative activities and building challenges.

Supports 6-8 students working in teams of 3-4.

K'NEX Renewable Energy and Solar Power set (78976)*Age: 10+**583 Classic K'NEX pieces*

An exciting K'NEX set for exploring renewable energy, including solar power.

Allows students to compare and contrast the power and efficiency that can be realized from wind, solar, and water-powered machines. Three groups of students can work simultaneously on projects of real-life significance as they learn about issues and concepts that will impact upon their future.



Set includes:

- ~ A 1.38v 500mA solar panel, 3 motors and power cords, and a capacitor for energy storage
- ~ Building instructions to build 9 curriculum-related models (3 models at a time)
- ~ Comprehensive teacher's guide with enquiry-based lesson plans and background information

K'NEX Roller Coaster Physics set (78880)*Age: 14+**2037 Classic K'NEX pieces*

Large classic K'NEX roller coaster set, which builds 11 different designs including:

- ~ 2 Large roller coasters (with and without loop)
- ~ 3 Half pipes (for car and ball)
- ~ 3 Inclined plane systems (for car and ball)
- ~ 2 Inclined planes (with loop)

Build two large models simultaneously. Investigate all aspects of velocity, kinetic and potential energy, work, etc.

Full colour instruction book plus extra designs on CDROM. 75-page teacher's guide containing 9 physics lesson plans. Supports 8 students.



K'NEX STEM Explorations Roller coaster set (77078)*Age: 8+**500 mainly Micro K'NEX pieces*

Explore STEM concepts while building a working Roller Coaster!

Using the materials included in this set, pupils will be engaged and energized as they further their knowledge and understanding of the science, technology, engineering and maths (STEM) concepts associated with a real-life amusement park ride.

The set includes 500 parts plus a battery-powered motor for a single pupil (or team of 2-3 children) to build a working Roller Coaster, plus two additional models: a Ramp and a Half-Pipe. Each model can be built one at a time.

Once built, a downloadable booklet guides students through 3 hands-on, inquiry-based experiments on each of the models. Students will learn about the relationship between time, distance and speed plus much more!

Requires 2 "AA" batteries, not included.

**K'NEX STEM Explorations Swing ride set (77077)***Age: 8+**470 Classic & Micro K'NEX pieces*

Explore STEM concepts while building a motorized Swing Ride!

Using the materials included in this set, pupils will be engaged and energized as they further their knowledge and understanding of the science, technology, engineering and maths (STEM) concepts associated with a real-life amusement park ride.

The set includes 470 parts plus a battery-powered motor for a single pupil (or team of 2-3 pupils) to build a working Swing Ride, plus two additional models: a Ferris Wheel and a Boom Ride. Each model can be built one at a time.

Once built, a downloadable booklet guides students through 3 hands-on, inquiry-based experiments on each of the models. Students will learn about how mass affects speed, how to gear-up and gear down, and much more!

Requires 2 "AA" batteries, not included.

