



PlayBroks.com



BUILDING TOYS AT SCHOOLS





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PLAYING

Children's Construction Toys

One of the most important areas of children's growth is to play with kids constructions of all type. Construction toys offer children of all ages open opportunities to design and create the structures they imagine.

Besides being a very fun activity, it has many advantages in the development of kids. They require a lot of imagination, and that's why kids play with them for a long time, improving motor skills, activating creativity and invention, enhancing reasoning among many other benefits.

Broks building sets have been designed to improve quality play in kids offering a toy that stimulate their imagination and creativity, improve problem-solving skills, fine motor abilities and their interaction skills with other children, parents and educators.

The different pieces are resistant, light and big enough for +3 years old children. The components proven design allows children to use the pieces intuitively and build with ease.

The possibilities are endless and the benefits numerous.



The benefits of playing with Broks construction toys are for life

- 1 While building with Broks kids intensify **fine motor skills and dexterity**, including eye-hand coordination, by the use of simple and complex pieces that allow many alternatives of work.
- 2 It stimulates **logical thinking and brain development**. The kids experience trial and error when trying to connect the various components at the same time that it allows them to understand and learn how basic and complex mechanism work, including gears, articulations or pulleys.
- 3 Fosters **creativity** and **imagination** due to its versatility for many construction alternatives and exercises.
- 4 Sharpens **visual and spatial intelligence** in the process of creation and assembly.
- 5 It allows to learn **basic mathematical and geometrical concepts**.
- 6 It reinforces kids **self-esteem** because in a simple way and with few pieces boys and girls are able to visualize their creation.
- 7 **Grows with children**, allowing more complex constructions as they master the basic ones. They learn and understand how things and the world around them work.
- 8 It also makes it possible to work on **social skills** allowing **interaction** and **collective problem solving** with the common goal of building something specific and sharing achievement.

CLASSROOM

Working with Broks in class is a perfect combination of fun and learning

Specifically in the classroom, construction games are a creative teaching and learning tool for children playing alone or collaborating with each other.

Broks can be easily adapted to different children ages with varied levels of knowledge and skills. It presents a unique opportunity to build, touch and learn physical, mathematical and engineering concepts in a practical and simple way.

1- BASIC CONCEPTS

We suggest to start individually working the hook system of each piece and alternatives to learn basic forms that will later help build more complex structures.

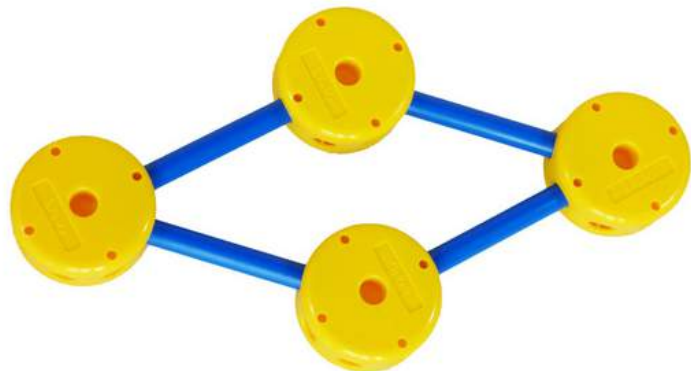
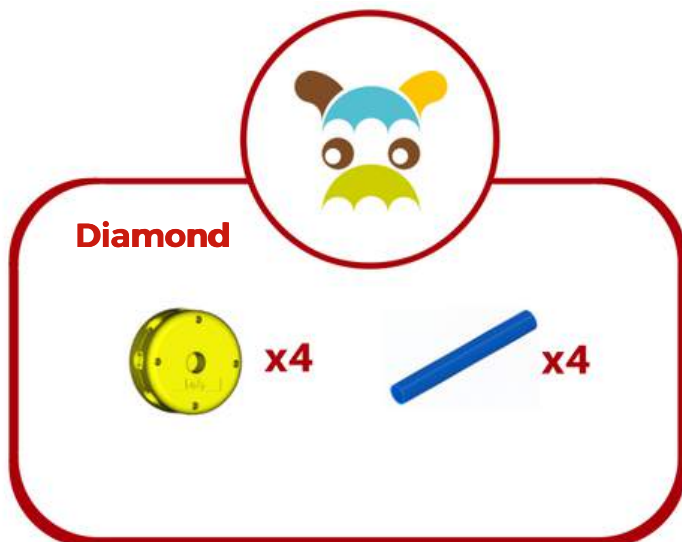
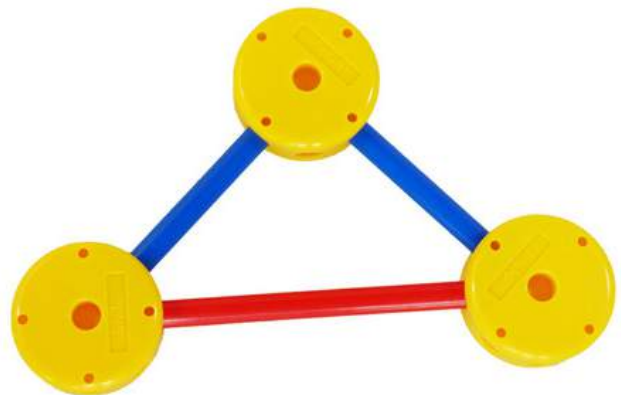
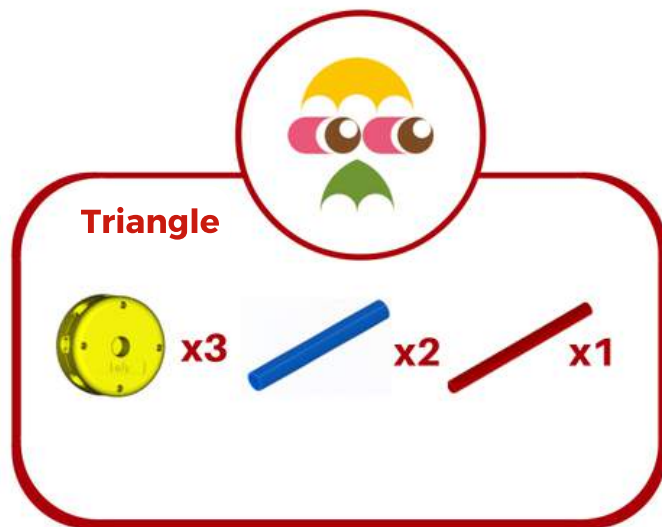
They will learn basic concepts like:

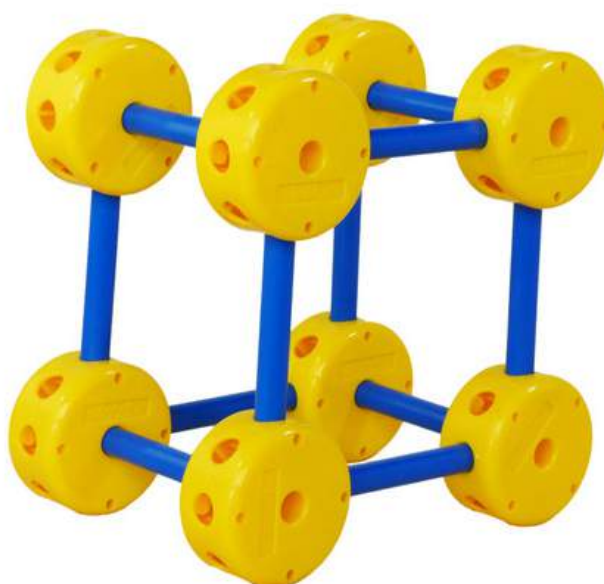
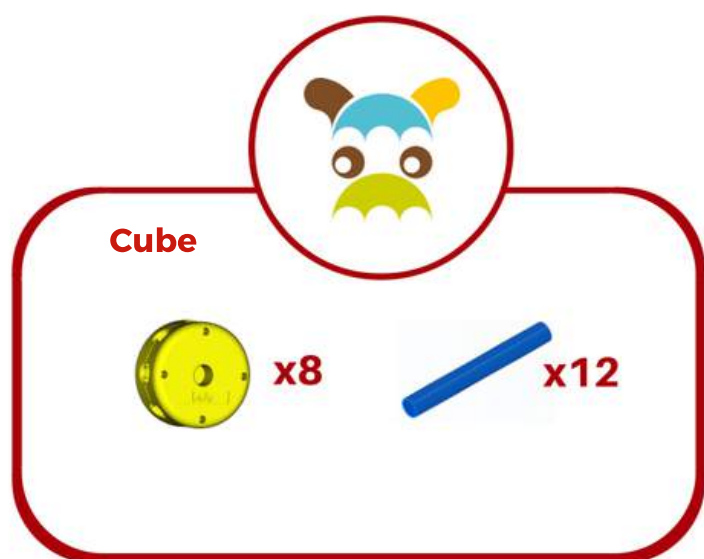
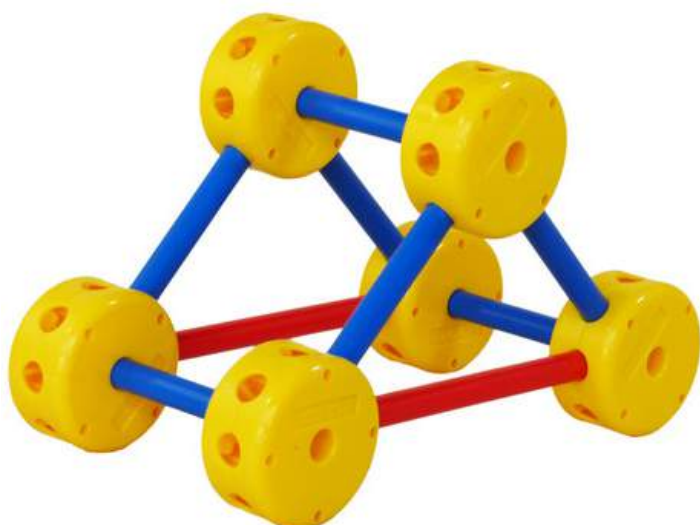
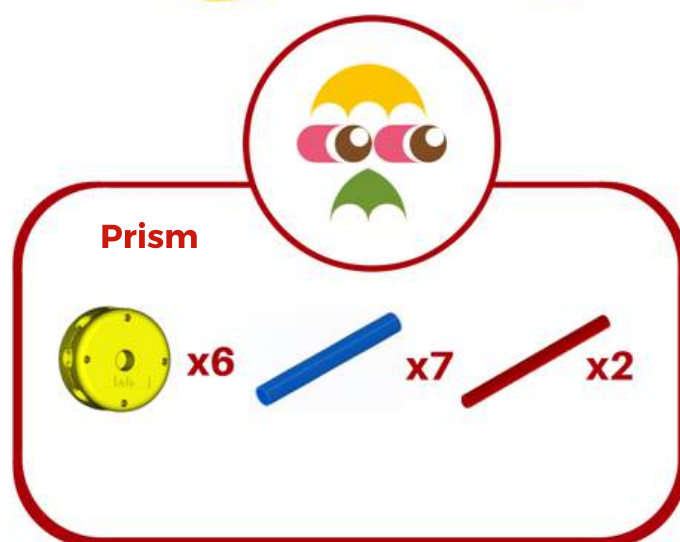
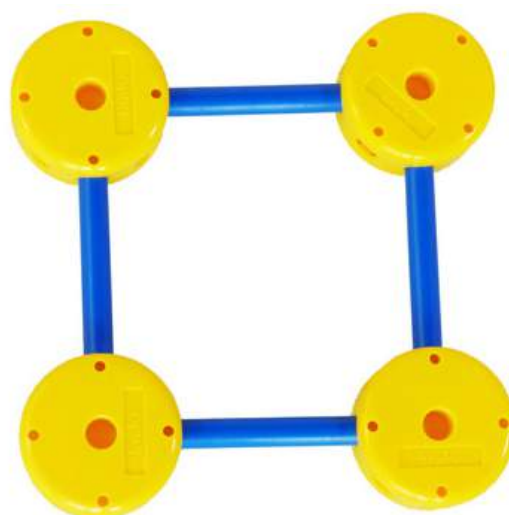
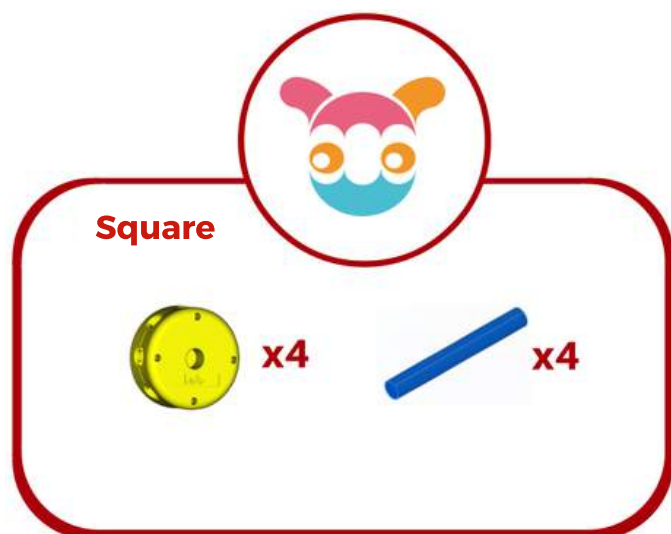


Geometric shapes

Get in touch with basic geometric shapes such as the triangle, the diamond, the square, the prism and the cube.

Where can we see these shapes in our surroundings?

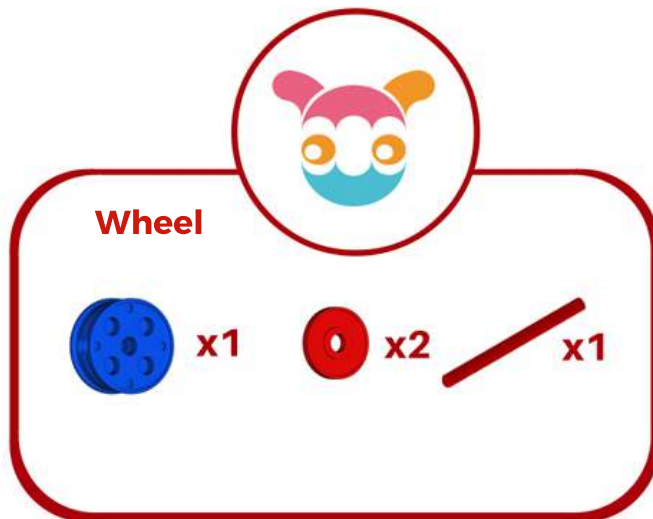




Wheel

The wheel is a circular piece that rotates around its axis. This basic principle has resulted in one of the most important inventions for humanity that allows transportation and the manufacture of various machines.

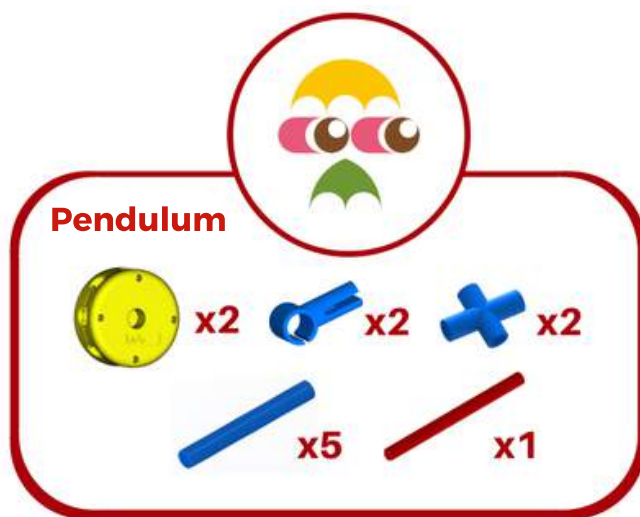
Where are there wheels in our city?



Pendulum

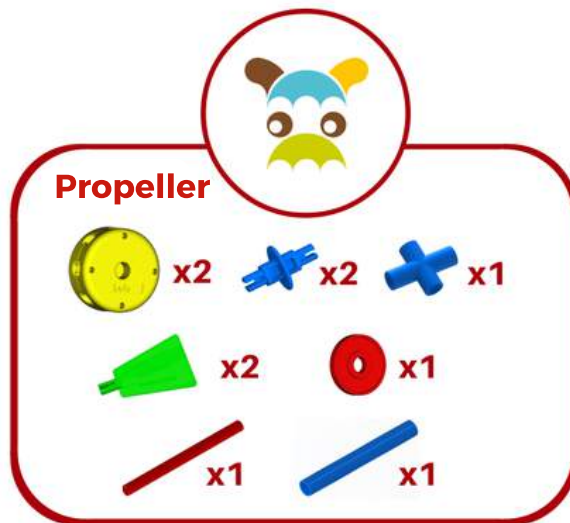
Through the construction of a swing kids can experience the concept of a pendulum: an object suspended from a thread that oscillates from one side to the other. We know that gravity is responsible in this case for this particular swaying around its equilibrium position.

What has been the funniest swing you have ever climbed?



Helix

This concept is based on a mechanism composed of blades that rotate around an axis. To visualize it, we propose to build a windmill where the force of the wind moves some propellers. This energy can then be transformed into another type of energy such as electricity. Where have you seen propellers besides the mills?



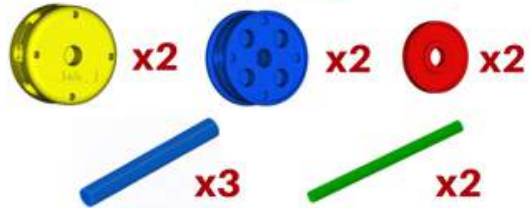
Levers of 1st, 2nd and 3rd grade

With levers we can move heavy weights and even manipulate some very small that they are difficult to move. The principle is simple: we use a rigid bar with a point of support, the weight to be manipulated and a force that will be multiplied thanks to the mechanism. Let's look at practical examples where each element is used differently to achieve an objective:

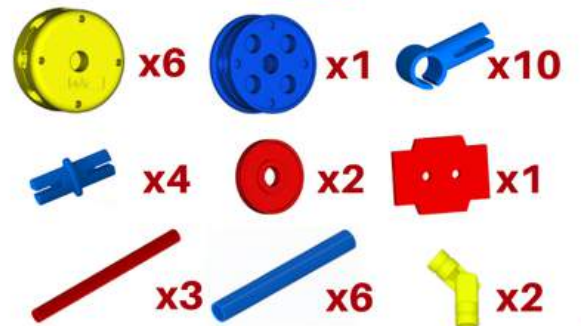




Scissors



Wheelbarrow



Tweezers



Balance

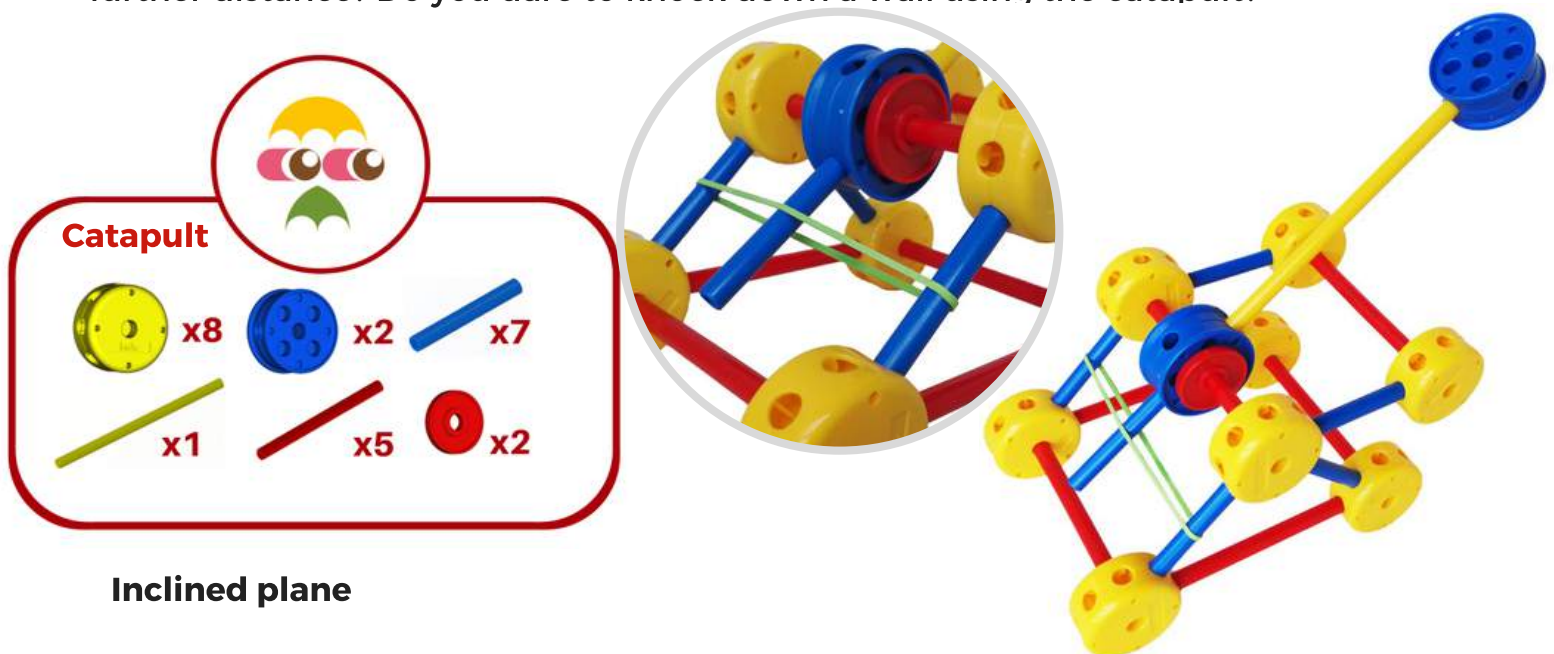


2- COMPLEX CONCEPTS

As you master the basics you can increase difficulty with more complex constructions and new components like gears.

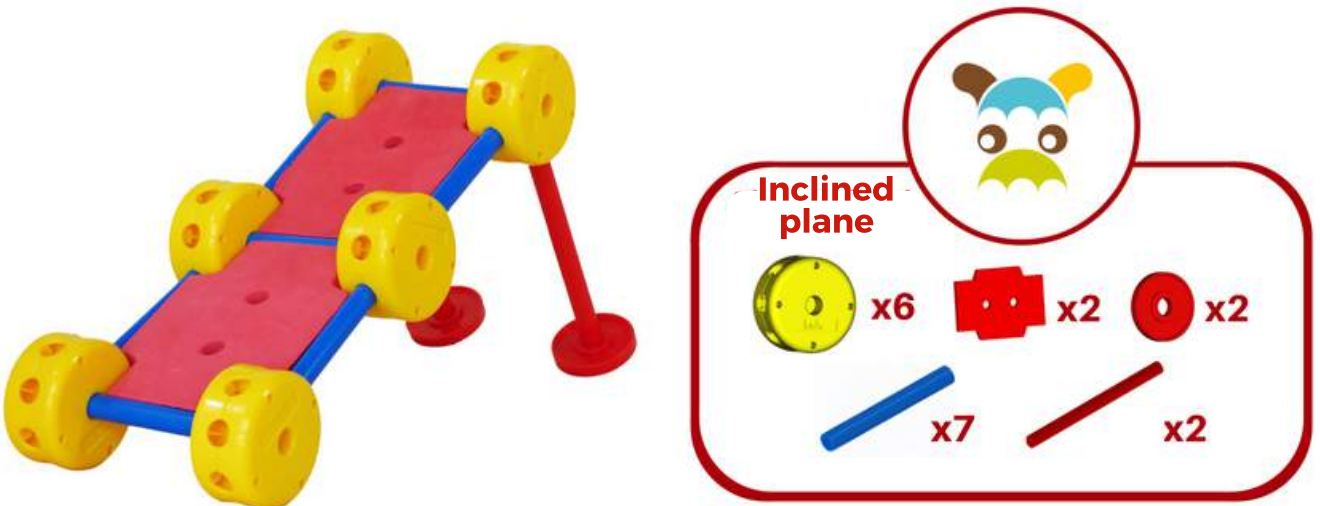
Simple Machine - Catapult

A catapult consists of an arm with a spoon to contain a load to throw, a point of support and a counterweight that will help launch the object. In our case we will use a rubber to get the resistance necessary for the operation. Which object goes further when thrown by the catapult? What is the reason for the object to reach a closer or further distance? Do you dare to knock down a wall using the catapult?



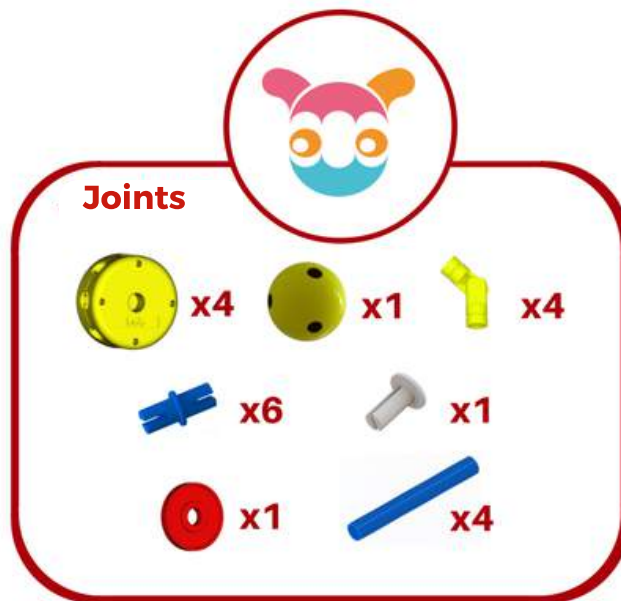
Inclined plane

An inclined plane or ramp is a flat and resistant surface that allows things to rise and fall through it. Uploading an inclined plane will be easier than lifting it vertically. One of the funniest inclined planes is the slide! What is the difference between the longest and highest slides with the shortest and lowest slides?



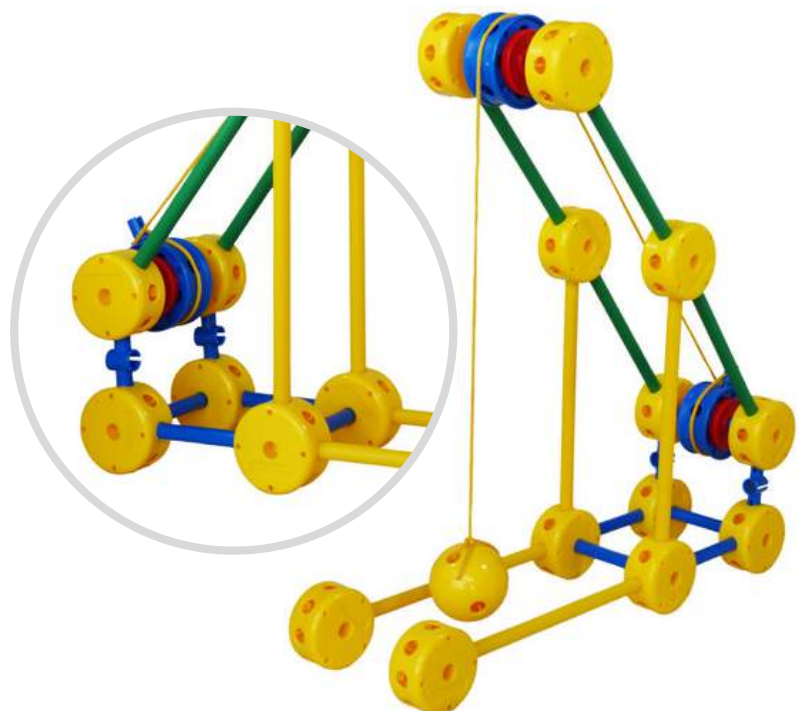
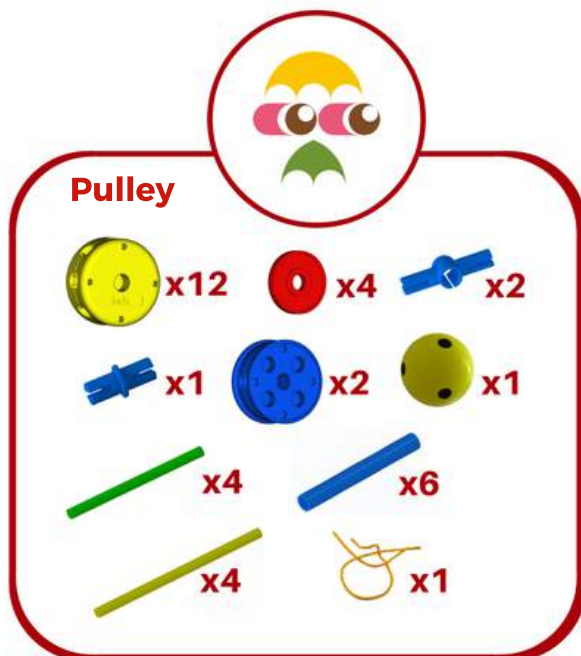
Joints / Articulations

It is a link that is responsible for joining two solids so that they move sharing a common point. Our body has several joints such as elbows and knees. What other articulations do you see in your friends?



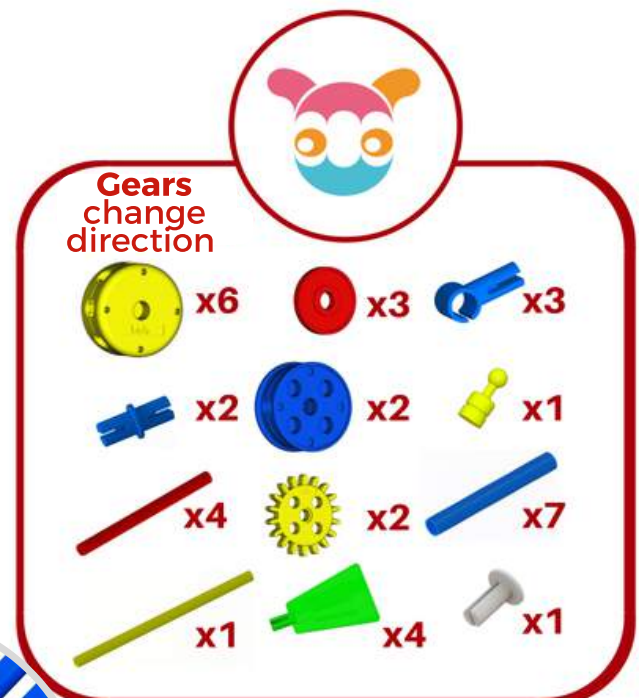
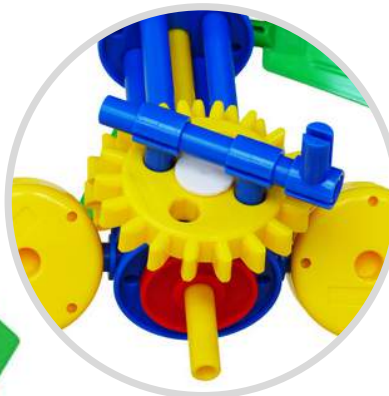
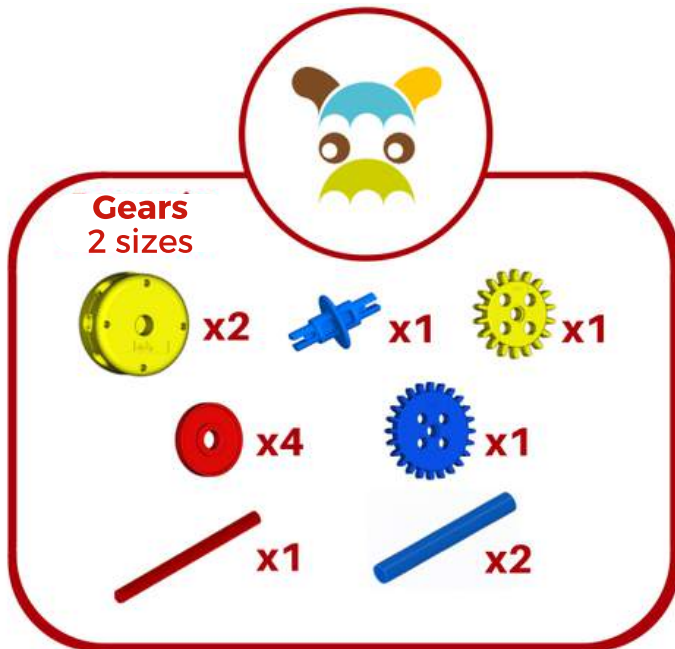
Pulleys

A pulley is a wheel that has a groove in its periphery, which rotates around an axis that passes through its center. A rope with a load attached to one of its ends passes through the slot. By exerting a force at the other end, the load is lifted more comfortably and with less effort.



Gears

It is a mechanism used to transmit power from one component to another within a machine. They are formed by two toothed wheels that are hooked to change direction to movement or to enhance the rotation. Do you dare to investigate the different types and applications of gears?



3- SOLVING PROPOSED CHALLENGES

Each box comes with a book with 10 challenges and its step-by-step explanation of how to build it. It starts with the simplest challenges and the increases complexity. The ideal way of solving them is by looking at the final picture and list of components to try to do it. If needed, you can consult the guide book to find a possible solution.



4- FREE PLAY - FIND A SOLUTION

The construction game allows children to invent and choose the challenge that most interests them. In this stage children can be encouraged to build whatever they want, either individually or interacting with each other. You can also propose different activities to motivate them to imagine their own solution.

Let's all collaborate to create the tallest building!

Do you dare to build an animal? What would you do?

What if you make an invention!. Tell us about your invention and how it works.

**I love music. Who wants to design and build a musical instrument?
How would you do it?**

Would you like to invent an original game in groups? What is the game about?



Comments from Broks buyers and users

"We loved it!!

I chose Broks because I thought it was a very creative toy and my 4 year old son could like it. Without doubt, it has been the best gift this Christmas! He loves to make the different examples from the instruction manual and also practices his creativity by imagining and creating different animals or different things", Amazon customer

"Super educational

It has impressed me. Super educational, entertaining and pedagogic. We will certainly repeat with another from the collection. Enchanted with the acquisition", Amazon Customer

"Very entertaining, it awakens the imagination

Fun to spend time with children. No need for batteries or screens, just let the imagination fly", Amazon customer

"A wonderful creation game from @PlayBroks!

They contribute to creativity, they develop motor skills, they help hand-eye coordination, they promote math ... And a thousand other things!", A's planet (Mother and Pedagogue)

"Spectacular!

We had bought it for a 4-year-old boy and his 16-year-old cousin was entertained all afternoon with different figures.", Amazon customer

