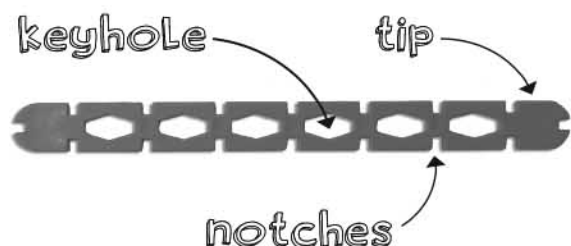


Get ready to use your creativity to build something new. Our Structure Sticks are all about exploring inventive ways to create objects by connecting different structures together.

Start by connecting the sticks one by one, making simple shapes. Then, connect your shapes together to create larger and more complex structures. Finding new ways to connect, twist and lock them together is all part of the fun.

Know your Structure Sticks:



Each stick has several notches and keyholes that you can use to lock them together. They're strong, yet flexible enough to twist into curves, giving you more options to bring your ideas to life. If you have an idea for a structure, think not only of the final shape, but also of the smaller shapes and steps it will take to build your final design.

There are lots of ways to connect the sticks together. You may need to snap them together using the notches. You might need to slide them onto one another, and then lock them into place by connecting other sticks and shapes together. Think of it like a 3D puzzle. Your inventiveness will be shown not only in your final design, but how you connected the shapes together to achieve it.

Once you learn how they connect, you'll have fun exploring new ways to connect them for your own creative ideas. Add other materials to customize your creations. Yarn, paper, modeling dough — whatever you can imagine. Try building an underwater structure, or fill with soil and seeds to watch the roots grow through.

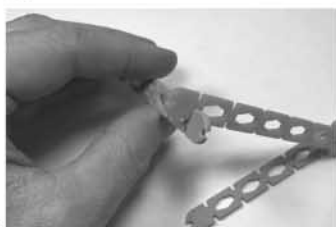
Try Building These Structures

Here are some projects you can build that will show you some tricks for connecting your sticks. For another look at assembly techniques, check out the video at www.roylcoUSA.com.

Table

This is a simple project you can build that will show you a great method for connecting your sticks together. Start with 3 sticks. First, hold a stick on its side in one hand. With your other hand, snap another stick into the first notch, like this:

1



2

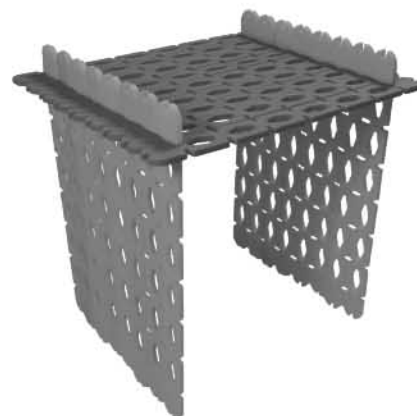


Repeat on the other side, like this:

3



Continue stacking the sticks together on their sides. This is how you build the table. You can make the table as long as you like.



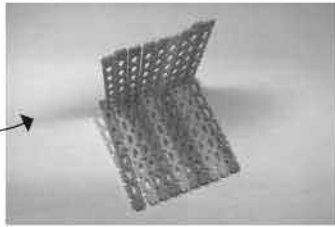
Chair

Let's use our table technique to build a chair.

1

This time, instead of creating a table with a top and two sides, let's just build the top and one side, like this:

That's it. This will make the seat (10 sticks) and the backrest (9 sticks).



2

Now let's build the base. Start with 3 sticks. Hold one stick upright, then insert the second stick into the bottom keyhole, and lock into place, like this:



3

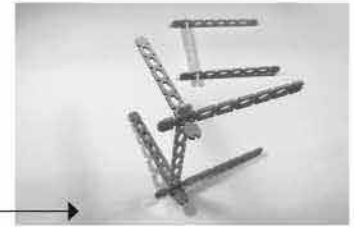
Then, using the third stick, slide the bottom keyhole onto the second stick at the first notch, and twist up, locking it into place, like this:

Repeat these steps to create a 2nd one, just like the first.



4

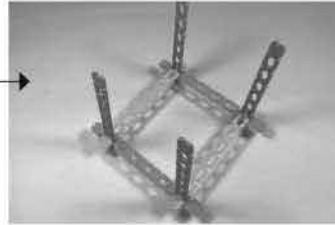
Now, connect these 2 shapes together. To do this, you'll need 2 sticks. Add one stick onto the bottom of one of your shapes, and repeat on the other side, like this:



5

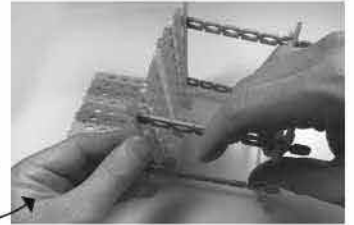
Then connect the other shape on the other side, in the same way, like this:

Now the base is finished.



6

Connect the base and the seat together. Insert up to the 1st notch, the 4 sticks rising up from the base into the seat of the chair. Place one stick into each corner of the seat, like this:



7

Strengthen the chair by adding a stick under the seat at the front and back, like this:



8

Now, let's make the arm rest. You'll need 2 sticks. Insert the first stick through the top keyhole of the second stick. Push through to the 3rd notch, like this:



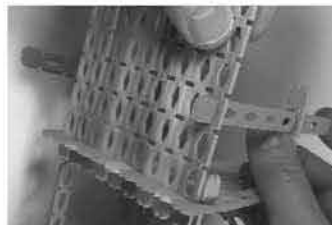
9

Now, insert the second stick down to the 4th notch into the seat of the chair. Use the keyhole behind the stick that makes the leg of the chair. Then, twist to lock into place, like this:



10

Insert the first stick through the 3rd keyhole from the bottom of the backrest, like this:
Repeat on the other side.
Now the chair is complete.



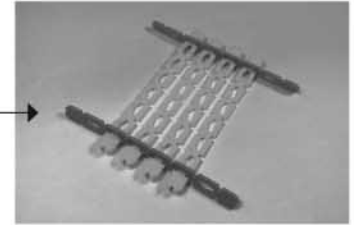
Basket

This is a fun project that demonstrates how twisting the sticks can really help you to create diverse structures.

1

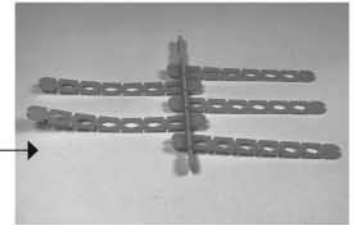
First, let's create the base. We'll need 6 sticks. Insert 4 sticks through the 4 center keyholes of another stick. Then, insert the 4 sticks through another stick in the same way on the other side, like this:

That's it. Now we're ready to move on to the sides of the basket.



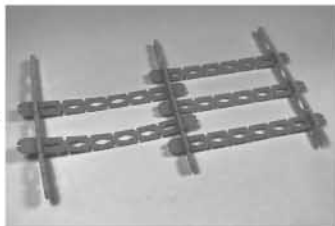
2

Using one stick as a vertical post, insert a stick horizontally into each keyhole at the first notch, starting at the bottom, and moving up. Alternate between the left and right sides, leaving the top keyholes open, like this:



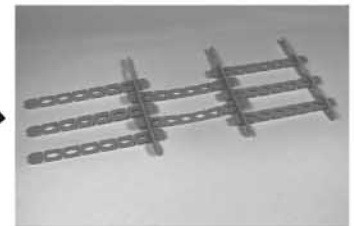
3

Now, add 2 more vertical sticks to either side, and insert the horizontal sticks through, like this:



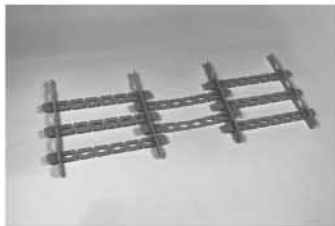
4

On the left side, add 3 more sticks, like this:



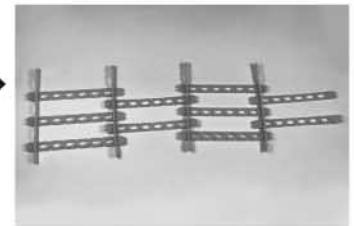
5

Now add another vertical post on the left, like this:



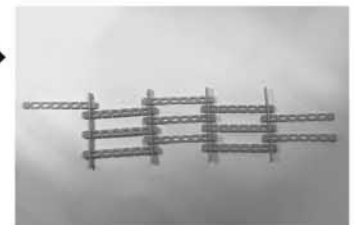
6

On the right side, add 2 more horizontal sticks, like this:



7

Now, add a horizontal stick through the top keyholes in the two vertical posts in the center, and another one on the left side, like this:



8

Now, close up the basket sides by connecting the horizontal stick on the left to the top keyhole of the vertical post on the right. You'll need to twist the right vertical post a bit, like this:

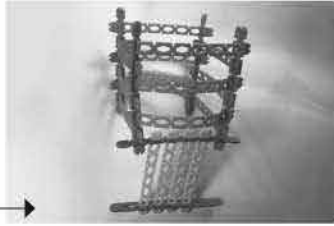
Now, connect the remaining horizontal sticks through the open keyholes in the vertical post.



Basket (continued)

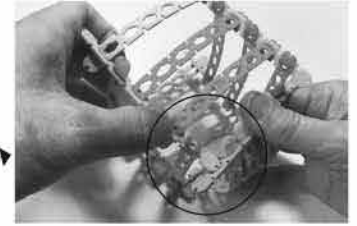
9

Time to connect the base and the sides together. The basket walls have 4 sides. You'll notice two of those sides are taller with a stick in the top keyholes. On one of those sides, attach the base to the vertical posts, like this:



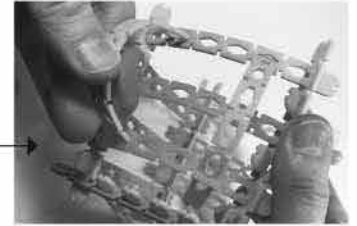
10

Now, fold the base over, and give it a little twist, to attach the base to the other side, like this:



11

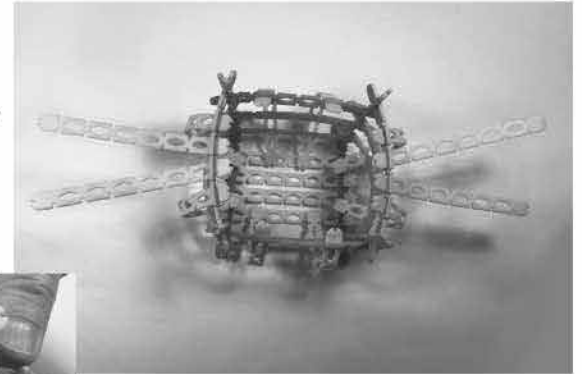
We need to add some sides to our basket to make sure we can hold all our stuff. We'll need 8 sticks to do this. On the top horizontal stick of each side, we need to insert a stick through the 2nd keyhole on either side, leaving two open keyholes in the center. Then, insert the bottom of the vertical sticks through the bottom horizontal stick, all the way to the 2nd notch, like this:



Repeat this step for all 4 sides.

12

Time for the last step. We need to make the basket handle. We'll use 4 sticks for this step. On the tall basket sides, insert the sticks through the center holes up to the first notch. Repeat on the other side. Now, we need to connect the left and right sides together. Position your basket like this:



13

Connect the sticks in the front. As you do, twist the right side and insert through the top keyhole in the bottom of the left side, like this:

Repeat this step for all 4 sides.



14

Connect the sticks in the back. As you do, fold them over the top of the sticks you just connected, and once again, twist the right side and insert through the top keyhole in the bottom of the left side, like this:



That's it. The basket is complete and ready to use.

