## Strawbees. BASICS

### CONNECT & LOCK

Strawbees are little pieces that connect to each other and to straws. To connect the Strawbees to each other, simply snap one into the other.

It connects to other Strawbees in two ways:

1) Snapped into the groove, or

2) Pushed all the way through.





### CONNECTING TO STRAWS

Squeeze the opening of the straw for easy insertion of the Strawbee.

If your straws slide off the Strawbees, you can lock them with another Strawbee.

We call this the tension lock. Push a Strawbee on over the Strawbee that already attached to the straw.

Another way of attaching a straw to the Strawbees is a joint pushed all the way in and adding Extrusion lock - Perfect for extruding and sculpting.

### JOINT

To make two or more Strawbees stick together in a hinge you can push a third one into them. 1) If you snap it into the groove, they will be a moving hinge, 2) If you push all the way through, they will lock into their positions.

Pro tip: Push one Strawbee at a time and if it's hard to fit them into each other, it helps to fold, squeeze, etc. Strawbees are quite resistant.



PUSH HALFWAY UNTIL YOU HEAR A CLICK



LOCK INTO POSITION

You can also fold the Strawbee over itself to create a friction lock.



### HOW TO REPLACE A PIECE

While building if you start to run out of certain types of Strawbees, you can replace them with a combination of other Strawbees (you can even cut them yourself!). You can put upto 20 Strawbees on a single Strawbee.





### CARDBOARD BASICS

Strawbees and cardboard are friends too. You can join two or more pieces of cardboard together by passing a Strawbee through them. Make the cardboards move by cutting out circular holes for joints, or lock the boards into position by simply fitting your Strawbees in a fixed place. Always remember to lock the Strawbees so they don't fall apart.

## Strawoccs. UMBRELLA

Learn how an umbrella works by by making one yourself! This particular umbrella has all the features of an umbrella except for protecting you from the rain.



# Strawoees. BUTTERFLY

The butterfly is a wonderful symmetric creature. We have celebrated this by making only half the the butterfly so all you need to do is mirror it to build the other side.

2

20

31

10





Complete the other

## Strawbees.

### ICOSAHEDRON

The icosahedron with it's 20 sides is the most complex platonic solid and since it is made of only triangles, it is very strong. This is a fun large scale construction activity! Build icosahedrons and connect them to each other to see how big you can build.



When done building the tetrahedrons, you can connect them to each other this way.

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### Strawoees. BRIDGE

Bridges are a great way to connect two places and to cross between them. Here's a simple way of building a simple modular bridge.





## Stranoces. PUPPY

'WOOF!' says the puppy. Here's a simple way to attach a head to a body and build a friendly companion!



## Strawcees. CATAPULT



Learn how an umbrella works by by making one yourself! This particular umbrella has all the features of an umbrella except for protecting you from the rain.



## Strawoees. TABLET STAND

With a small modification ro the pyramid you can make yourself a tablet stand.





Strawbees. ARM

You can make an arm in so many ways, it's hard to count! Here's a simple but very stable way to build a mechanical articulated arm.



## Strawcees. DOME

Everybody loved domes. Invented by buckminster fuller and based on tensegrity all domes are a version of the icosahedron.

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40

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1 20

24cms

21cms

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