



Extending Grabber

Name: _____

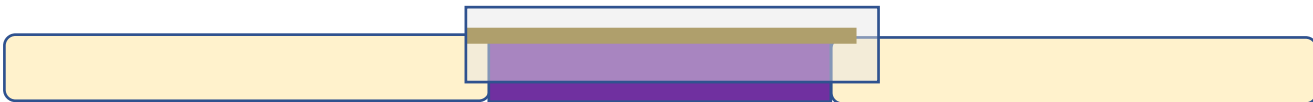
Directions:

We are going to build and strengthen our beams. Take your large straws and cut each of them into equal quarters. You should end up with 8 equal straw pieces.

Next take your craft sticks and place one craft stick into each end of 4 of your straw pieces. Leave a small gap where your two craft sticks meet. You will end up with four beams like this:

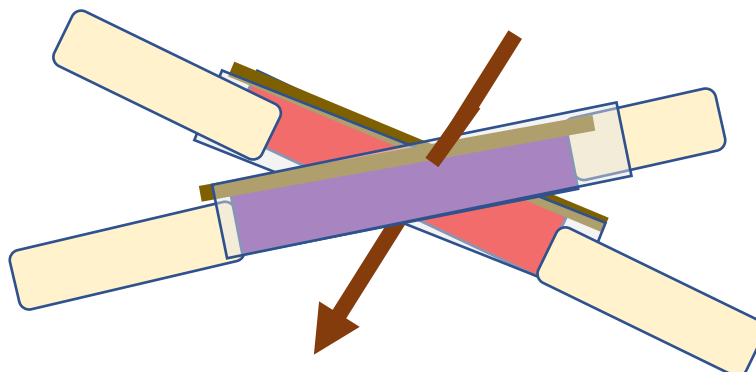


Take your small wooden sticks, and tape it along the top-side of the straw portion of your beam.

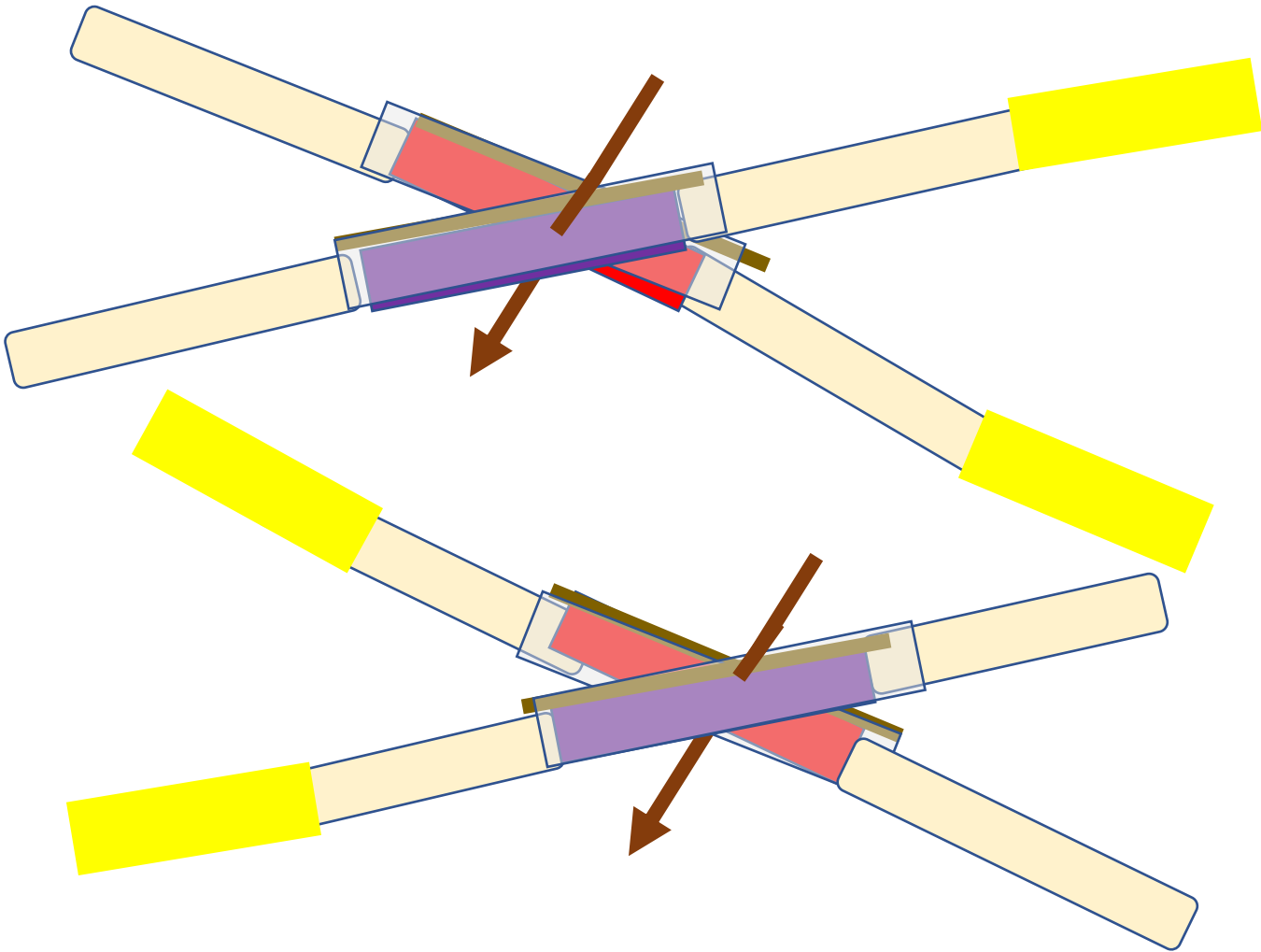


Repeat this step with all four beams.

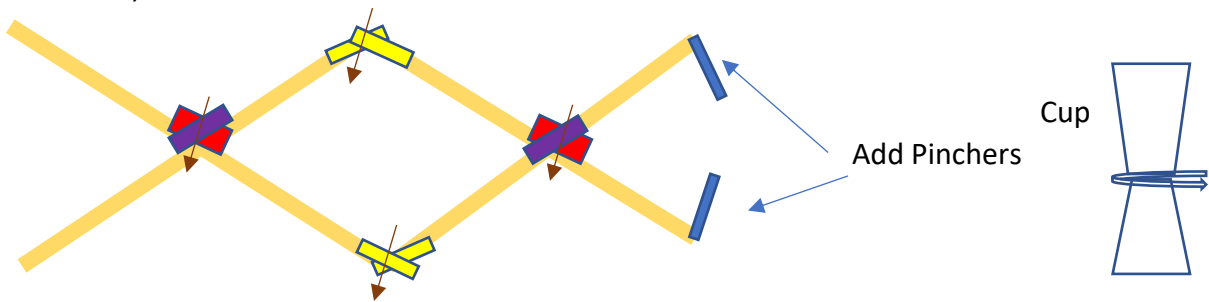
Next, we are going to connect the beams. To connect the beams you will first need to take one of the pointed ends of the skewer and pierce the center of the straw. With the skewer still inserted into the beam, use the same pointed end to pierce the center of the straw of a second beam. You will have created an 'X'. Now pull the skewer 1/2 way thru the 'X' and break it off so that you can reuse the pointed end to create another 'X'.



Once you have created two 'x's you will now connect them to each other. To do this add additional straw pieces to the ends of each 'x' (If craft stick is loose in the straw, place a piece of tape on the end to help hold it in place.)



Once you have added the additional straw pieces to your 'x's you are going to use the same skewer trick that we used earlier to connect the two open ended straws. Leaving a bit of skewer in place to connect the 2 'x's. (see below).



The next step is to add the pinchers that go on the end of your extending grabber. Take your last remaining craft stick and break it in half. Tape each half to the end of your grabber.

Take your two paper cups and tape them together so the bottoms meet. Try picking up the cups with your extending grabber.