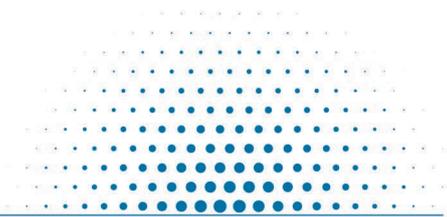


Catapult Creation



You will need:

- > icy pole sticks or small evenly sized sticks x 11
- > elastic bands x 20
- > hot glue gun (check with an adult that it's okay for you to use this)
- > bottle cap or small lid
- > various small items to catapult!
- > tape measure or ruler to measure distance.



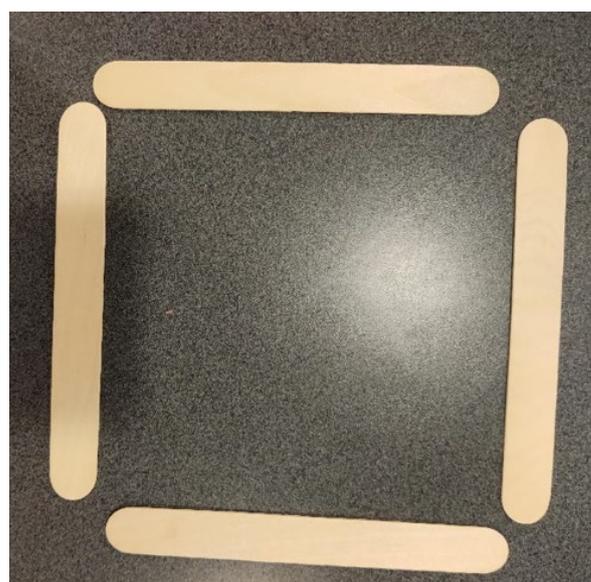
1. Start by taking two sticks and crossing them at the top.

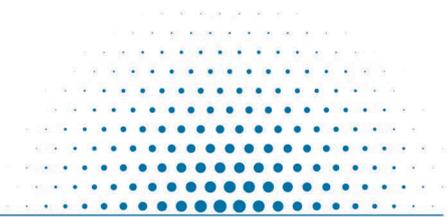


2. Tie them together with an elastic band, and repeat steps 1&2 again so that you have two V-shaped sticks.

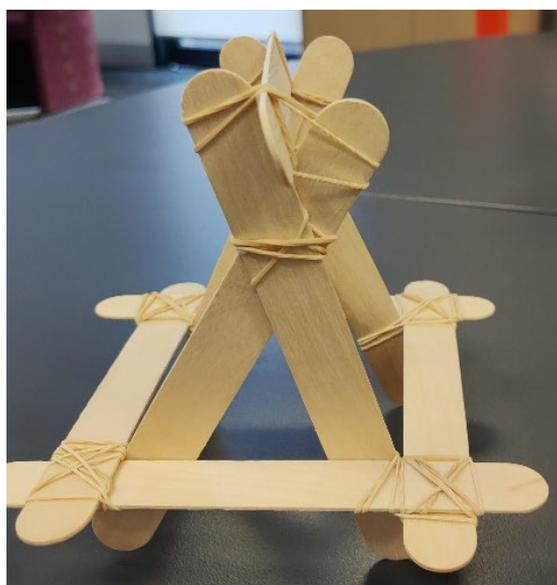
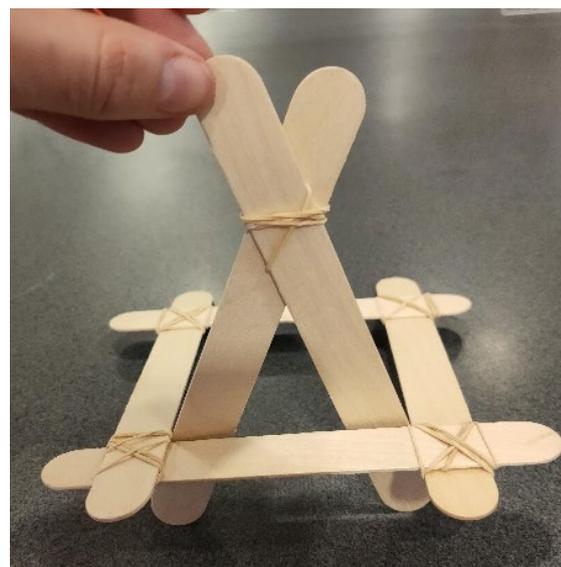


3. Take 4 sticks and make them into a square by tying each of the corners together.



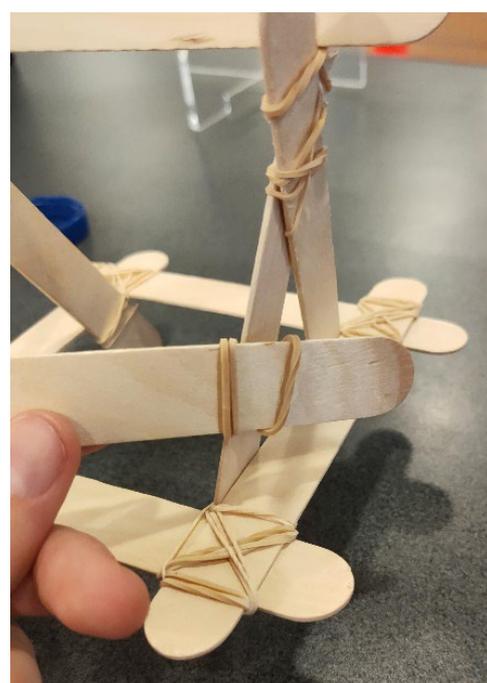


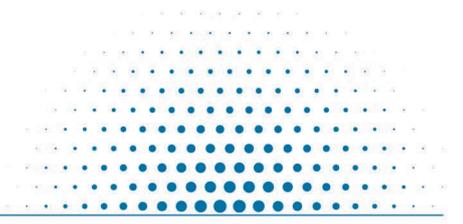
4. Once this is done, fasten your V-shaped sticks into the square, and tie them into the corners so they stand upright in an A-shape. You may need two elastics on each leg to keep the A-shape upright.



5. You now need to place one stick across the top of the A-Shape horizontally, using one elastic on each end.

6. Loosely fasten an elastic band onto the end of one icy pole stick. Slide that stick down one leg of your A-shape and fasten around the leg so that it is on securely.

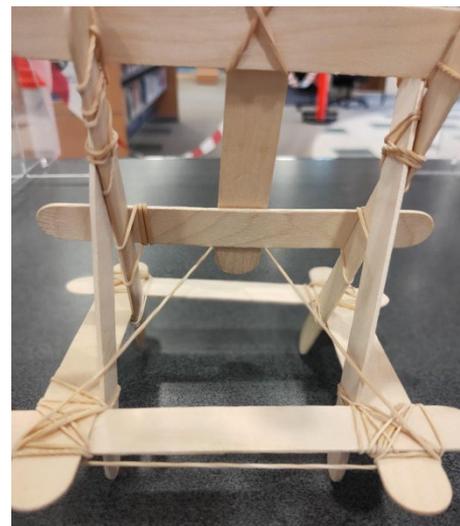




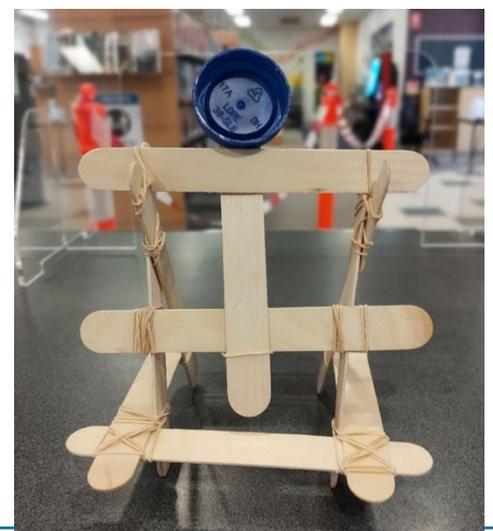
7. Rotate the icy pole stick around to the front of your catapult so that it reaches the opposite leg of the A-shape and sits flat against the front.

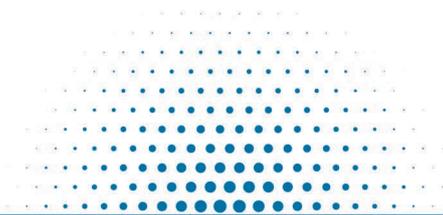


8. Place your last icy pole stick vertically, so that it slightly overhangs the second horizontal icy pole stick. Place the elastic over the end of the stick and pull it down and over the back legs of the A-Shape.



9. Attach a bottle lid or cap to the top of the icy pole stick so that you can rest your object to catapult in it. Use the hot glue gun to do so (make sure this is done with adult supervision!).

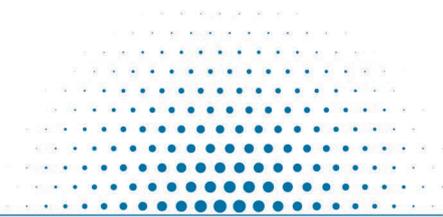




Catapult Log			
<i>Object in catapult</i>	<i>Distance thrown</i>	Heavy or light?	Points
			Total points:

The best object to use in my catapult was

Why do you think it went the furthest?



Catapult Bullseye

Print this bullseye out and place it 3 metres away from your catapult (or 6 big steps). Experiment with different objects and see which ones go the farthest. Record your findings on the catapult log and send a photo to libraries@mitchellshire.vic.gov.au with your personal best distance or bullseye.

