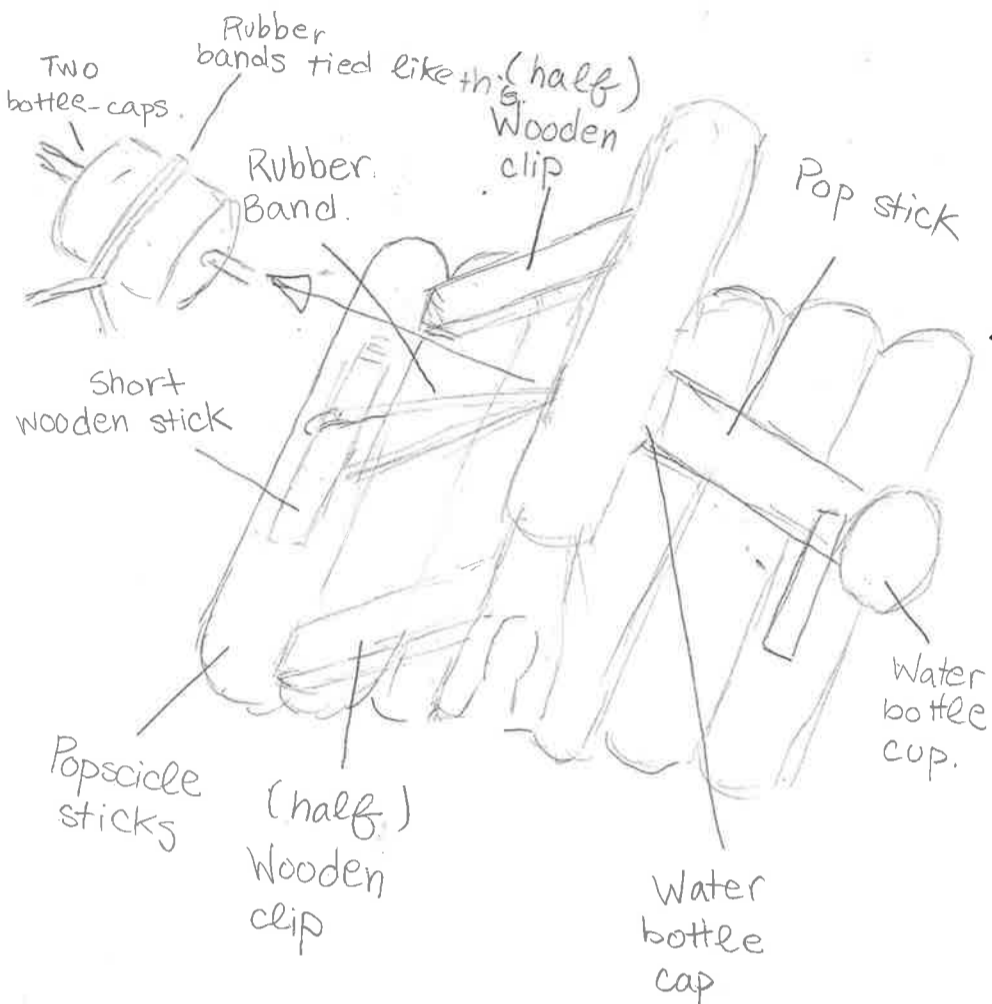


- DEFINE THE PROBLEM:
- DESIGN A CATAPULT THAT WILL FIRE AT LEAST 0.5m and LESS THAN 3M,
- MINIMUM VERTEX HEIGHT 0.3 M.

### Catapult Design:



### Effectiveness:

The rubber band in the front pulls the popsicle stick with the ping pong ball forward when the clip is released. The bottle cap in the middle is attached to the rubber band and the popsicle stick so that it connects them together. Also these materials are very easy to access in ISB.

### Materials:

- popsicle sticks
- wooden clips
- rubber bands
- short skinny stick
- hot glue gun
- ping pong ball

### Success Criteria:

1. strong base, frame
2. Right amount of tension.
3. Take into account the settings / or surroundings, gravity
4. Free standing
5. Accuracy of release
6. shooting speed / angle (pullback, release)   
 right amount of
7. The ball is in the correct range

This design is best for this challenge because it fires high and far. Also, the materials are not hard to get and there are no skills required to build the catapult. The design isn't very complex so that we don't need to spend a long time to build this catapult.