

Apprentice Adventures!

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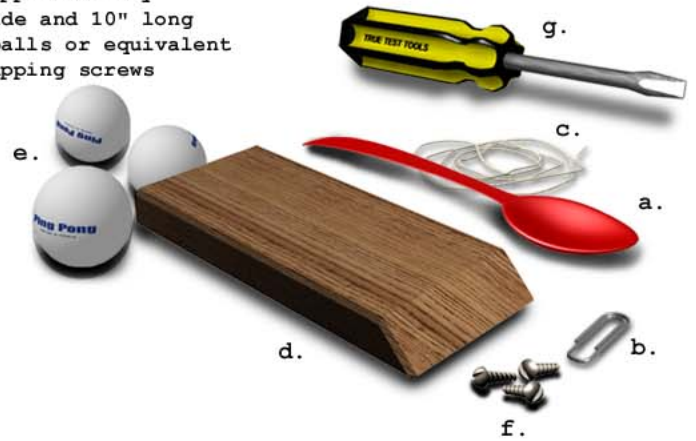
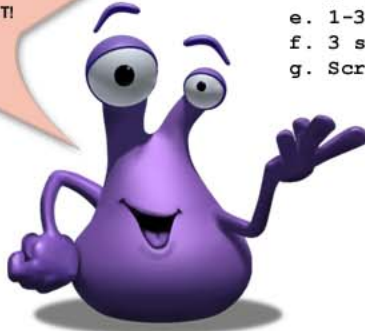
Homebuilt Catapult

MATERIALS & TOOLS NEEDED

- a. 1 Plastic spoon
- b. 1 Paper clip
- c. 12 inches of string
- d. Block of wood approximately 1" thick, 4" wide and 10" long
- e. 1-3 ping-pong balls or equivalent
- f. 3 small self-tapping screws
- g. Screwdriver

Safety First!

Make sure that you have your parent's approval with the tools and materials that will be used. Remember, SAFETY FIRST! Then have fun.



Step 1.

Take the block of wood and make an angled end to mount the spoon.



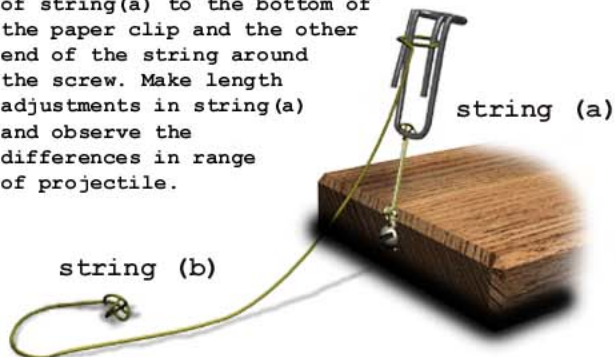
Step 2.

Using the screwdriver, screw the self tapping screws through the handle of the spoon and into the wood base. Use two screws to secure the spoon.



Step 3.

Build the firing mechanism by taking the paper clip and putting a 90 degree bend in it to make a latch that will hold the spoon in a cocked position. Take the remaining screw and screw it into the back end of the wood block; tie a piece of string (a) to the bottom of the paper clip and the other end of the string around the screw. Make length adjustments in string (a) and observe the differences in range of projectile.



Step 4.

Take a separate piece of string (b) and tie it to the paper clip near the 90 degree bend. This will be used to pull and launch the projectile.

