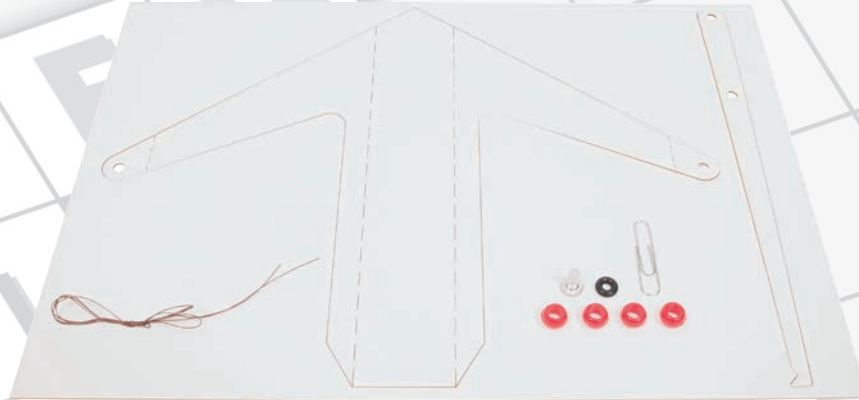


EZ Trebuchet

User Guide



Cautionary and Warning Statements

- This kit is designed and intended for educational purposes only.
- Use only under the direct supervision of an adult who has read and understood the instructions provided in this user guide.
- Read warnings on packaging and in manual carefully.
- Safety glasses required.
- Never launch at people.
- Make sure the launch site and flight path are clear of all people prior to launch.
- Never attach sharp objects to this product.
- Always exercise caution when using sharp tools.

Materials Included

- Sheet of die-cut card stock
- Pivot pin
- O-ring
- String
- Paper clip
- 4 pony beads
- 15 metal washers

Items Required (not included)

- Safety glasses
- Scissors
- Pliers
- Ruler

Building the Trebuchet

1. Pop out all of the pieces from the die-cut card stock.
2. Bend the scored lines on both sides of the middle section so that the left and right sides of the trebuchet base bend up toward each other (Figure 1). **Note:** When bending the card stock, make sure to bend only one way.
3. Slightly bend the scored lines farthest away from the middle section on the left and right in the opposite direction of the previous step, and then press these two sections together (Figure 1).
4. Align the hole on the trebuchet arm closest to the middle with the holes on the trebuchet base, slip the pivot pin through the holes (Figure 2), and secure the pivot pin with the O-ring (Figure 3). Make sure the hook at the end of the arm is facing the same direction as the long end of the base.



Figure 1



Figure 2

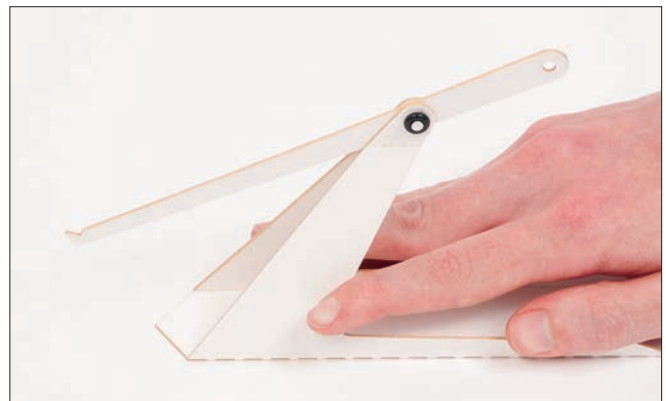


Figure 3

- Using the pliers, bend about half the long end of the paper clip facing up (Figure 4). Straighten that long end and make a small square hook at the end (Figure 5).
- Place the washers over the hook end of the paper clip (Figure 6). This will make the mass that is used to operate the trebuchet. Attach it in the hole at the end of the trebuchet arm (Figure 7).



Figure 4



Figure 5



Figure 6

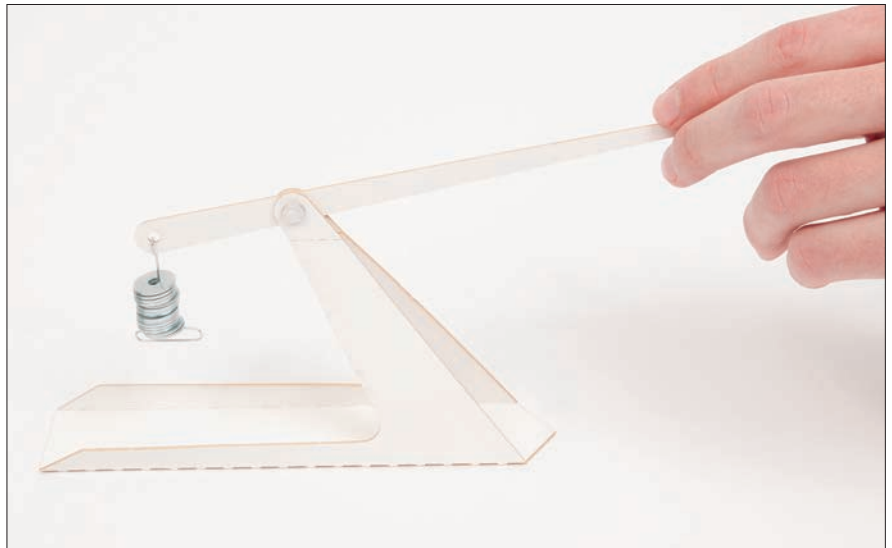


Figure 7

Firing the Trebuchet

- Cut a 5" long piece of string (Figure 8).
- Tie a loop on one end of the string and knot the other end through a pony bead (Figure 9). Repeat Steps 1 and 2 for each pony bead.
- To fire the trebuchet, hook the loop in the string onto the end of the trebuchet arm and pull the arm down (Figure 10). When you're ready to launch, release the arm and watch the projectile fly!



Figure 8

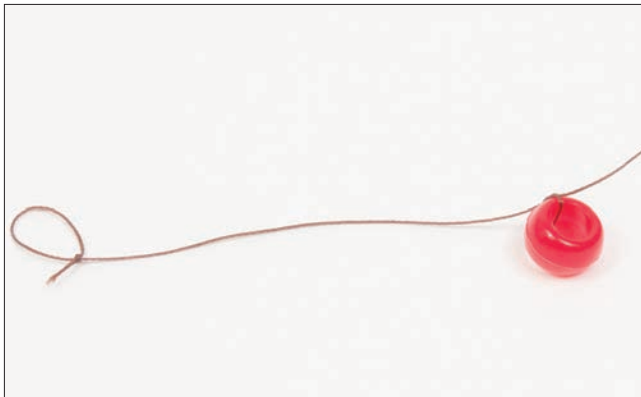


Figure 9

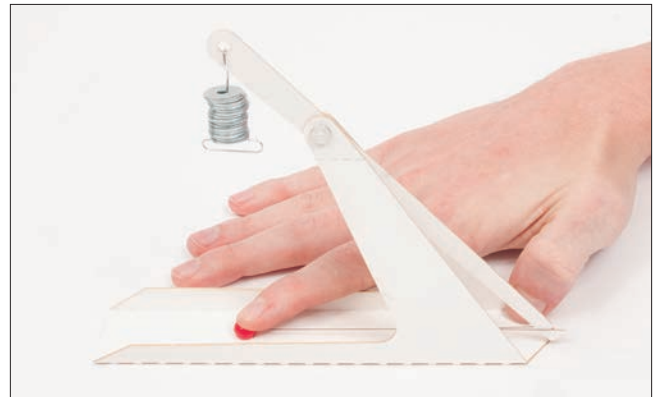


Figure 10

Ideas for Using the Trebuchet

- Experiment with different lengths of string and varying numbers of washers to see what effect that has on firing distance.

PITSCO

E D U C A T I O N

P.O. Box 1708 • Pittsburg, KS 66762
www.pitsco.com
Toll-Free Orders 800-835-0686