

# STEM CHALLENGE

## You will need:

- Old plastic bottle
- 2 rubber bands
- Marker
- Scissors
- Twine
- Pom-pom ball

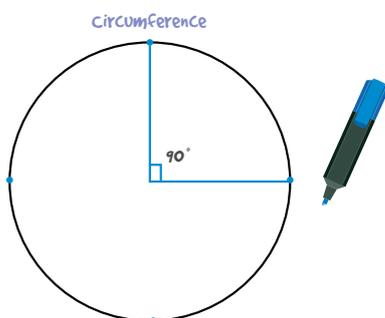


**Step 1:** Cut the ball 5'' below the neck. Use the neck part of the bottle for this fun toy.



neck part  
of the bottle

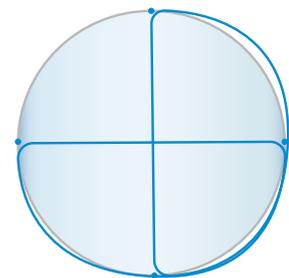
**Step 2:** Make 4 marks around the circumference, so that each mark perpendicular to its neighboring marks.



**Step 3:** Cut along the mark with scissors, making cuts (nearly 1 cm deep) in the circumference.



**Step 4:** Secure elastic between two slits opposite each other. Repeat with the remaining two slits as well.



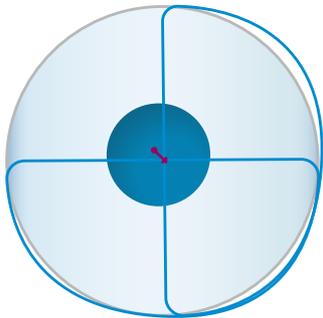
The final arrangement will make a cross at the intersection in the center of the bottle.



Step 5: Using scissors/skewer make a small hole in the bottle cap.



Step 6: Take the twine/string and tie a knot at the elastic intersection and thread the remaining twine through the bottle cap.



Keep the twine hanging from the cap long enough to pull.

Snip the rest.



Step 7: Place the pom-pom ball at the intersection. Pull the string and release.



Pom-pom ball  
shooter is ready.