

# CAMP LA JUNTA

# Daily DO #31

## BATTLE TOPS

We had fun testing out different materials and designs to come up with the best possible Battle Spinning Top! Designing a top that spins well is a matter of science. Adding weight around the edge of the top increases its inertia (a resistance to a change in motion) and makes it spin longer. Instead of just using a circle design, play with different ideas to see which works best for your and your battles.

### Supplies Needed:

- Cardboard box
- Golf Ball- 1 per top
- Golf Tee or stick
- Hot glue
- Markers
- Pennies- four per top
- Scissors
- Plastic cup



**Step 1:** Start by tracing a circle on the cardboard. We used a plastic cup.



**Step 2:** Then use scissors to make a hole in the center of the circle. (Adult job)



**Step 3:** Now is the time to decorate if you like. Decorate your top with markers, colored pencils, or crayons. Bright colors and bold patterns work the best.



**Step 4:** Use hot glue to attach the marble to the underside of the top. The hole in the cardboard gives the golf ball a place to sit, but it won't really fit in the hole.

If you want, glue four pennies around the edge of the top, on the



**Step 5:** Glue a golf tee or stick to the top side, where the hole is. Use a LOT of hot glue, and hold the skewer upright until it dries.