



**Purpose:** To determine the top weight of a bowling ball.

**Materials:**

- Ball cup
- Bowling ball to be tested
- Dodo Scale (balance)
- Grease pencil
- Turbo 2-N-1 Pro Sect

**Procedure:**

1. Place the bowling ball in the ball cup.
2. Use the Pro Sect and draw a line through the CG and pin of the bowling ball with the grease pencil.
3. Make sure the balance is zeroed by having the needles on the right side of the balance.
4. Hang the counter balance weights on the right side of the balance.
5. Place the bowling ball in the cradle on the left side of the balance so the grease pencil line through the CG and pin is parallel to the right edge of the cradle and the CG is aligned with the white marking on the right edge of the cradle.
6. Using the large slide weight on the back of beam of the balance, balance out the weight of the bowling ball until the needles on the right side of the balance align.
7. Flip the bowling ball 180 degrees so the grease pencil line through the CG and pin is parallel to the left edge of the bowling ball cradle on the balance and the CG is aligned with the white marking on the left edge of the cradle.
8. Using the smaller slide weight on the front beam, balance out the top weight of the bowling ball until the needles on the right side of the balance align.
9. Read the weight indicated by the small slide weight on the front beam. This is the top weight of the bowling ball in ounces.