Purpose: To determine the average hardness of a bowling ball

Materials:

- Bowling Ball to be tested
- Type D Digital Durometer in stand

Procedure:

1. Push the "on" button on the durometer.

2. Push the "hold" button on the durometer once so the displayed reading will be the maximum value.

3. Place the bowling ball in the ball cup under the durometer. Be sure that any logos, serial numbers or other identification markings are avoided when taking a hardness reading.

4. Using even pressure and a slow pace, pull down the handle on the right side of the durometer stand until the durometer hits the bowling ball and you cannot push the handle down any more.

5. Record the hardness reading from the digital display on the, "Hardness" Excel file.

6. Rotate the bowling ball in the ball cup under the durometer, so the next reading can be taken on another random location on the bowling ball. Again, be sure to avoid any logos, serial numbers or other identification markings on the bowling ball.

7. Repeat steps 4-6 until 10 different locations on the bowling ball have been tested. A good sample of the bowling ball should include a wide range of locations over the bowling ball that includes all of the colors on the bowling ball.

8. The overall hardness of the bowling ball will be displayed as an average of the 10 readings taken on the ball in the "Hardness" worksheet.