# Inquiry 1 2 3 4 4+ Overall Level \_\_ Score \_\_\_/5

**Learning Goal: I will conduct an inquiry into the uniform and non-uniform linear motion of an object**

**Directions: with the materials supplied, make up and play a game of ‘car bowling’ (app time 5 min)**

1. How did today’s activity serve to differentiate between the terms *distance* and *displacement*? Answer fully. Use diagrams, if helpful, with your discussion.

2. Would the term *uniform velocity* (aka *uniform motion*) be appropriate to describe your car’s motion across the table? Explain.

## 3. How does the term *average velocity*, Vav, (defined as Vav=d/t) apply to your sphere’s motion? You can use approximate numbers for ‘d’ and ‘t’ to aid your explanation.

4. How does the term *acceleration* apply to the motion of your car? In which direction was it traveling? In which direction was it accelerating?