1. What do you think? LEGO NXT Robot traveling a curved path approaches wall—what is shape of (time, dist) curve? Make a guess:

2. Follow student worksheet (attached)
   a. Experiment with Nspire Handheld
   b. Record data
   c. Plot data
   d. Prove similar triangles for replication of central angle $\theta$
   e. Derive modeling function

3. Experimental results – Why the jump in data?

4. Placing experimental data on modeling function

5. Realization of experimental domain (contrast to theoretical domain)

6. Matching (time, dist) to (angle, dist)

7. Challenge
   a. Find non-trivial data which can be analyzed mathematically

   b. Plot, analyze with technology (Nspire, Excel, etc.)

   c. Compare experimental to theoretical