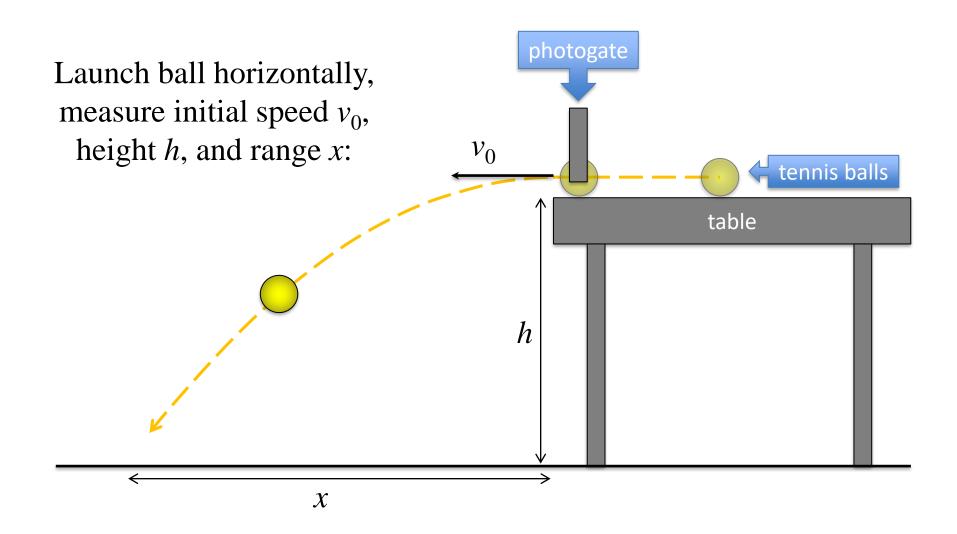
1. Use masking tape to attach a short length of track right at the edge of a table to create a "launching ramp".

Mini-Lab: Projectile Motion – Verify Expected Behavior

- Attach a photogate to a ring stand and arrange to measure the tennis ball as it leaves the ramp and flies off the table.
 Connect the photogate to LabQuest Mini DIG1. Change
- photogate timing mode to <u>Speed through Gate</u> enter the diameter of the tennis ball (which is very close to 6.5 cm).

 4. Place meter sticks on the floor to measure range.
- 5. Hold a second ball and use it to hit the first ball and launch it horizontally through the gate. Record speed and range.
- 6. Repeat at least 5 trials with various values that show a relationship when graphed. Record height of table.



Note to self: demonstrate how to launch one ball while holding the other!



