Toilet Paper Lab Activity  
(Groups of 2)

1. Calculate how much higher unrolling one toilet paper roll would have to be dropped so that they both hit the floor at the same time: **H/h**  
   Icylinder=1/2 m (r2+R2)  
   **Show your calculation (this will be your hypothesis)**
2. Design an experiment to test your hypothesis. The only available equipment for this lab is a meter stick or a tape measure. Include a graph in your analysis: make data graphable and the graph interperetable.  
   **Describe your procedure**
3. Perform your experiment and record your results.
4. **Analyze** your results to obtain the value of H/h from your graph. Show how this was obtained.  
   H/h = \_\_\_\_\_\_ is the goal here (get it from your graph)
5. Compare your result to the expected result you found in #1  
   This means you need to find a **% Error** using your calculation as the theoretical value.
6. Suggest major **sources of error**.