

Simulation Instructions:

1. Open DragWorksheet.xls
2. Using an overhead marker, plot the distance downrange and time of flight for the Default Conditions Results from the yellow box with an X. This is the nominal case.
3. Generate a new data point
   1. Change the input value for Air Pressure
      1. Roll two dice and flip a coin
      2. **Multiply** the values on the dice together
      3. If the coin is heads enter the value from step ii in the green Air Pressure/% change (+/-) cell
      4. If the coin is tails multiply the value from step ii by -1 and enter the new value in the green Air Pressure/% change (+/-) cell
      5. Enter the value from the Air Pressure/New Conditions cell into the green Air Pressure/column B cell
   2. Change the input value for Volume of Water using the procedure for Air Pressure
   3. Change the input value for Angle Measure
      1. Roll two dice and flip a coin
      2. **Add**  the values on the dice together
      3. If the coin is heads enter the value from step ii in the green Angle Measure/% change (+/-) cell
      4. If the coin is tails multiply the value from step ii by -1 and enter the new value in the green Angle Measure/% change (+/-) cell
      5. Enter the value from the Air Pressure/New Conditions cell into the green Angle Measure/column B cell
   4. Change the input value for Drag Coefficient using the procedure for Air Pressure
   5. Plot the new values from the yellow Results box using a dot.
4. Repeat step 3 as many times as possible.