Lesson 3 Rocketry vocabulary/concepts 11/2/2021

* Piston (vs flame protector) (vs rocket barf) for parachute protection
* Drogue parachute (at apogee) vs Main parachute (as rocket approaches the ground)
* Dual deploy to minimize lateral landing distance (i.e. drift with the wind on descent)
* RockSim ($$)
* OpenRocket (free)
* Parent-child component relationships in simulation software
* Ballast (to improve static margin in simulations and/or in reality – simulations can be off)
* Plotting options – especially altitude, velocity, acceleration, and lateral distance
* Wind-cocking – flying into the (local) wind
* Interpretation of graphs when multiple things are plotted on top of one another

Link to document repository

http://www.aem.umn.edu/people/faculty/flaten/Rocketry\_Remote\_Lessons\_Fall\_2021/

Sophia’s evolving photo-build instructions – check back regularly:

<https://docs.google.com/presentation/d/1NritqFEBkQI95c4ex6SjiA-08uaoEcFUydgjlA6mtdY/edit#slide=id.p>