Lesson 4 Rocketry vocabulary/concepts Oct. 3, 2017

* 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 9.0 ($)
* OpenRocket 15.03 (free)
* Parent-child component relationships
* Ballast (for reality and/or for stability)
* 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

Document repository: [*http://www.aem.umn.edu/people/faculty/flaten/Rocketry\_Remote\_Lessons\_Fall\_2017/*](http://www.aem.umn.edu/people/faculty/flaten/Rocketry_Remote_Lessons_Fall_2017/)

Danny’s evolving photo-build instructions – check back regularly: [*https://docs.google.com/presentation/d/14IxzFs65U64-Dv\_CV8lyb0TSgxyj1ti4kJh6mG2wQh8/edit?usp=sharing*](https://docs.google.com/presentation/d/14IxzFs65U64-Dv_CV8lyb0TSgxyj1ti4kJh6mG2wQh8/edit?usp=sharing)