





PLV Design Report

Please put the following on the next 2 blank pages in your notebook:

1. On the **first blank page** include a **detailed picture** and/or sketch of your PLV final design (use the **FULL PAGE** for the drawings). You need to include the following drawings:
 - a. A side (profile) view. 
 - b. A front (head on) view. 
 - c. **Include measurements** (in cm) for the **length, width, height** and the **windows** on your vehicle and the **mass**.
 - d. **Label (use arrows) the safety designs** you engineered into your PLV.
 - e. It needs to be in **COLOR** and please **use a ruler** (for straight lines).
2. On the **second blank page** explain what **safety devices** you incorporate in your PLV that helped to protect the egg from injury? (approximately ½ page)
 - You should discuss **safety measures you engineered** into your PLV: (crumple zones, bumper design, seat belts and restraints, seat design and location, force absorbing materials or any other safety measures you included in your PLV) (**claim**).
 - **Include** a **detailed drawing** of the seat and safety restraints used to secure the egg (after your written response for #2).
3. Discuss **how well your PLV protected the egg from injury** during exoplanet landings by addressing the following: (approximately ½ page)
 - a. **Explain** from the results of the simulated landings (**evidence**) **why** your design worked or did not work.
 - b. What would you do **differently** if you were to **reengineer** your PLV?
 - c. How does **Newton's Laws of motion** relate to the PLV testing?

