Design Review

* Understanding of the requirements detailed in section 3
  + Team composition
    - Roles & responsibilities
  + Mission objectives
    - Simulation of an atmospheric sampling system
    - Operation sequence in both cases
    - Base requirements
    - Bonus objectives
* Allocation and derivation of system and subsystem requirements
  + Categorise objectives based on type (see sections 2.1 and 2.2) \*some overlap between these categories, but repetitions have been removed for simplicity
    - Supporting structure & Misc.
      * 1; 2; 3; 4; 8; 9; 10; 22; 26
    - Data structure / Software\*
      * 12; 13; 14; 15; 25
    - Operation
      * 5; 6; 7; 11
    - Electronics / Hardware\*
      * 16; 17; 18; 19; 20; 21; 23; 24
    - Bonus objectives
      * B1; B2; B3
* Overview of the design
  + Match points above to features of design
    - Include points that are not covered
    - Work on a first and second draft and include both in the DR
  + Predicted properties of final design
    - List physical properties (either exact values or bounds) including where estimates originate from
      * Mass
      * Dimensions
      * Operating time
    - List expected operation
      * Data collected
* Predicted Budget
  + Expected costs
    - How the budget is assigned
    - Sourcing of parts
  + Inclusion of a buffer in budget
    - Expected failure rates
  + Expected time required
    - Shipping
    - Work
      * Design, Construction, and Testing
* Identification of necessary trades supporting the design
  + Detail necessary skills required / used
    - Assign each to role and task where possible
    - Highlight shortcomings in team’s skillset and how we have adapted to cope
  + Split trades into roles for each section
    - Design
    - Construction
    - Testing
    - Launch day
* Results of testing, prototyping, or both as needed to transition from the design to build sections of the project
  + Cover any already constructed aspects of the design
  + Cover lessons learnt from testing