Project Evaluation Points

<u>Generally:</u>
1. The set-ups are (shortly) described.
2. **The figures added are pertinent (ie, timing residuals and parabola fit)**
3. Tables with final measurements of L, T, g (pendulum) and D, d, a, theta, delta_theta, g (BoI) are presented.
4. Tables with raw data (for example, table of length measurements) are present (in appendix).
5. **Errors are correctly propagated (cross check either the pendulum or the BoI).**
6. Final value of g – pendulum and BoI (look in abstract)
7. Sound discussion of potential systematics (large swings, CoM-displacements, friction, ball size, etc.).

<u>Pendulum:</u>
8. Time uncertainties are taken from the residuals of the linear fit (or best possible other way).
9. Length of the pendulum compared for consistency using chi2.
10. **Discussion related to the chi2 for any part of the pendulum experiment (e.g. combination of periods).**
11. Clearly computed sigma_T and sigma_L (individual contributions from T and L to the error on g).

<u>Ball on Incline (BoI):</u>
12. The method for getting the time of the BoI is described well (e.g. turn voltage into times).
13. Acceleration and theta are computed for both start position and reverse position.
14. Individual contributions of a, D, d, theta, and delta_theta are discussed for the BoI.
15. Fit to parabola is made. Fit results and Chi2 is reported.
16. **Chi2 performed on relevant measurements of the BoI (consistency between experimenters).**
17. Appropriate discussion of the chi2 results for the BoI.

<u>Bonus:</u>
18. Bonus for extra precise measurement (must be justified with chi2 checks).
19. Bonus points for estimating the effect of a systematic.

For each subtraction of full points, there should be a comment, I think!