Mobile Challenge!

In this challenge, you will calculate and predict where four objects should hang on two dowels to make a ***balanced*** mobile. Your grade is based on the accuracy of your prediction and generated mobile.

**Supplies and Equipment:**

* Two dowels
* String
* 4 oddly shaped objects of varying mass
* Electronic balance
* Meter stick

**Rules of play:**

1. You must first draw a blueprint of the mobile you intend to build. This blueprint should include the mass and location of the objects. You will also need to show your calculations for each dowel.
2. Once you have completed your blueprint, build your mobile. **Do not hang it up at any point!**
3. Your grade is based on how balanced your mobile is the first time you hang it up – each time you need to tweak it will result in 1 pt dockage. Get the teacher so you can play the game (get graded)!

**Analysis:**

1. Give at least two reasons why the mobile did not exactly balance as calculated. Think hard and be specific. With **each** reason you must explain what effect the error had on your results and how the experiment could be improved to improve or eliminate this error. This is, of course, to be in complete sentences.