Paper Rocket Distance

Name: _____   **Period: _____**

Assignment: Design, build, test and grade your 4 best rockets and record and graph their distances. Each rocket is worth 5 pts. Plus, your best rocket is worth up to 5 more points. Add up your points and fill in your grade for a score out of 25 points.

Stability: Positive - CG is ahead of CP. Rocket will fly in correct direction.
          Neutral - GC and the CP are at the same point.
          Negative - CP is in front of the CG.

Rocket #1: 11" rocket   **Rocket #2: 11" rocket**

Distance _____ feet   **Distance _____ feet**

Stability: _____   **Stability: _____**

Rocket #4: 14" rocket   **Rocket #2: 14" rocket**

Distance _____ feet   **Distance _____ feet**

Stability: _____   **Stability: _____**

                              _____ / 20 points

Evaluate and circle your best rocket distance for a total of 5 points

200' +   = A+ (5 pts)
175 - 200'   = A (4 pts)
125 – 174'   = B (3 pts)
75 – 124'   = C (2 pts)
50 -74'   = D (1pt)
< 49'   = F (0 pts)

                              Total: _____ /25 points

1. **Who came up with the Laws of Motion.**

   a) **Juan Valdez**   **b) Thomas Edison**   **c) Sir Isaac Newton**
   d) Graham Bell

2. **Finish the 1st law of motion. An object in motion stays in motion, ….**

   a) **an object at rest stays still**
   b) **an object at rest stays at rest unless acted upon by an external force**
   c) **both a) and b)**
   d) **neither a) or b)**

3. **Three forces acting on a rocket are**

   a) **Gravity, Drag, Thrust**   **b) Thrust, Drag, Friction**
   c) **Gravity, Thrust, Lift**

4. **In 1957, the Soviet Union launched the first satellite called**

   a) **Spencer**   **b) Challenger**   **c) Sputnokia**   **d) Sputnik**

5. **What PPE equipment is expected to be used around power tools in class?**

   a) **Safety harness**
   b) **Safety glasses**
   c) **Steel toed boots**
   d) **Hard hats**