***Rube Goldberg Project 2014-Zipping a Zipper***

<http://www.rubegoldberg.com/> **Project Due Dates: May 5-7**

**Total Points for 4th Quarter Grade 200 points**

**Friday 3/28; Friday 4/11; Mon. 4/14; Fri. 4/18; Tues. 4/22; Fri 4/25; Mon 4/28-Fri 5/2; Mon 5/5**

**Requirements:**

* You may test parts of your project at home. The entire project should be assembled at school. I will be looking for progress daily.
* I will assign you a part of the room to put your things.
* Your machine **MUST complete 10** or more steps and you may only touch step 1. The rest must run on its own.
* All supplies will be brought in from home (tools, materials, etc.)
* Please watch your cost! Label all of your tools with your last name.
* Each member of your group must equally participate.
* The project MUST fit through the doorway and be approximately 2’ wide x 3’ long and 5’ high max.
* Your project must successfully work to complete the task
* **All projects will be demonstrated the week of May 5-7 and for Open House May 8**
* All deadlines must be met by all members of your group.
* You must name your contraption. The contraption should be built in the designated area I give you in the room.
* Your machine needs to have a theme and be decorated to convey that theme.
* All projects must be portable and attached to a wooden base.
* **You may not use live animals, fire or anything that would be harmful to you or your classmates.**
* Be creative and fun!
* You may work on your projects at lunch if you arrange it before hand.

**HELPFUL HINTS:**

1. Start with the end- what you are trying to accomplish, **then** work backwards, step by step. Give everyone a job. Describe each step on a sheet of paper first.
2. Then, sketch out a diagram of your invention.
3. Make a cartoon as Rube Goldberg did. See website for examples.
4. http://www.rubegoldberg.com/gallery
5. Now you can start building.
6. Use ordinary objects, mechanical gadgets, any household odds and ends to help you construct your project.