

Rube Goldberg Project - 4B

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Your group will be responsible for building a
Rube Goldberg Machine to **Pop a Balloon!**

Your Balloon Popper Machine must include each of the following simple machines and project requirements:

- _____ Incline/decline plane
- _____ Pulley
- _____ Gears
- _____ Wedge
- _____ Wheel and axle
- _____ Lever
- _____ Pop A Balloon

The more unique and complex you can make your machine the better!

Group # _____

Group Members:

Due Date: Tuesday, June 2, 2015

How to Guide

Step 1: Students will pick their own groups- no more than 3 people. Students can choose to do this project on their own.

Step 2: The students will create an invention that will include the an example of each of the six simple machine classes that we have been discussing in class for the past week.

Step 3: Creating the invention. (Numerous trials, brainstorm and problem solving will be involved.)

Step 4: Creating a video of your invention popping the balloon.

Step 5: Fill in the assignment sheet with the Number of trials, brainstorm and problem solving that were involved.

TEN COMMANDMENTS OF RUBE GOLDBERG MACHINES:

1. No more than 3 people in a group.
2. **Your R.G. machine must pop the balloon.**
3. Your machine must work independently and *can only be touched once to start your machine.*
4. Complete a drawing plan (one must be submitted by all members of the group)
5. Videotape your machine and send it by email or put on a USB stick for the class to watch. (1 video)
6. *Adult involvement is limited to the following: Assist in organizing a time to get the group together, helping the students get their supplies, assist with videotaping their experiment*
7. Complete the booklet either online or on print (one must be submitted by all members of the group).
8. You will be expected to do a Self and Peer evaluation at the end of your project.
9. Project must be submitted by Tuesday, June 2. If not you will be charged \$200 for each day that it is late.
10. Have fun and be a good partner or group member.

PLAN - Draw an outline of the machine

Tally of how many trials the experiment took:

Tally:	Total:
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1. Which simple machines (Incline/decline plane, Pulley, Gears, Wedge, Wheel and axle, Lever) was the hardest to include in your machine? Why? (minimum 2 sentences)

2. Which rule did you think made the project the hardest or most interesting? Why? (minimum 2 sentences)

4. Did your rough copy diagram help you with your building? Why or why not? (minimum 2 sentences)

5. Which item did you find the most useful? Why? (minimum 1 sentences)

7. How could you have been a better partner (2 ideas and sentences).

8. How could your partner have been a better partner (2 ideas and sentences). (minimum 2 sentences)

9. 2 STARS and a WISH. Below tell me your two favourite parts of the project and one wish. A wish could be something you would do differently or improve on next time). (minimum 3 sentences)

10. What are at least 1-2 things you would suggest to make the project better for students in future years? (Minimum two sentences).
