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## Instructions for making the Rube Goldberg Machine Foldable

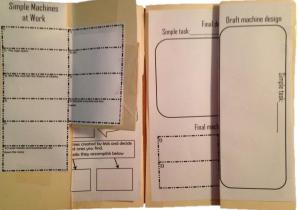
Rube Goldberg Scavenger Hunt

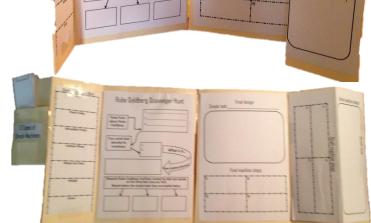
<u>Project Description:</u> This foldable has a never ending supply of places for students to store all of their research and thinking!

6 Types of Simple Machines



- 2 file folders per student
- Templates

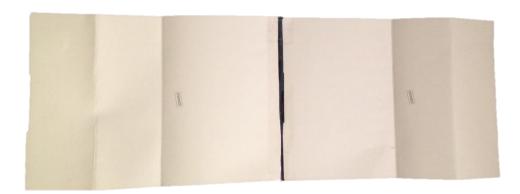




Final design

Draft machine design

#### Step 1 & 2

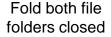


Trim both file folders to remove the tabs. Open then up and tape the two together. Be sure to leave a small gap between the file folders to that they are easy to fold.

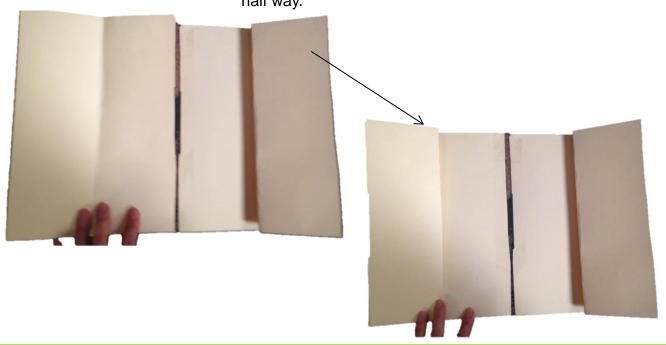


## Instructions for making the Rube Goldberg Machine Foldable

## Step 3 & 4

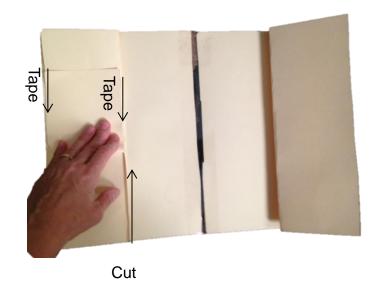


Then bend back the top of both file folders about half way.



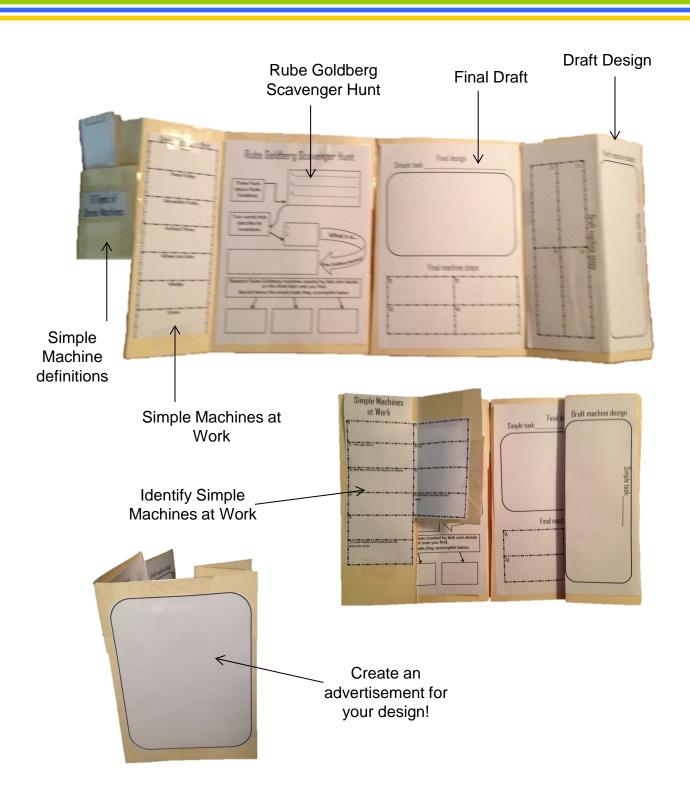
### Step 5 & 6

To make the pocket, cut upward about 1/3 up the thin side of the folder and tape both sides to form the pocket.





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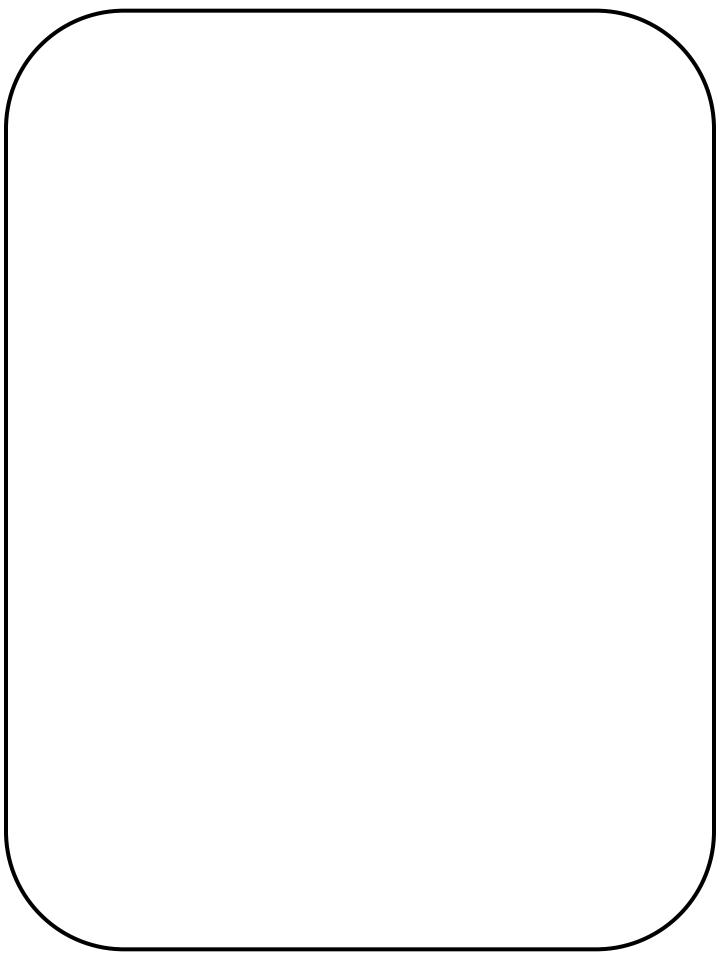


# Rube Goldberg Machine Student Directions

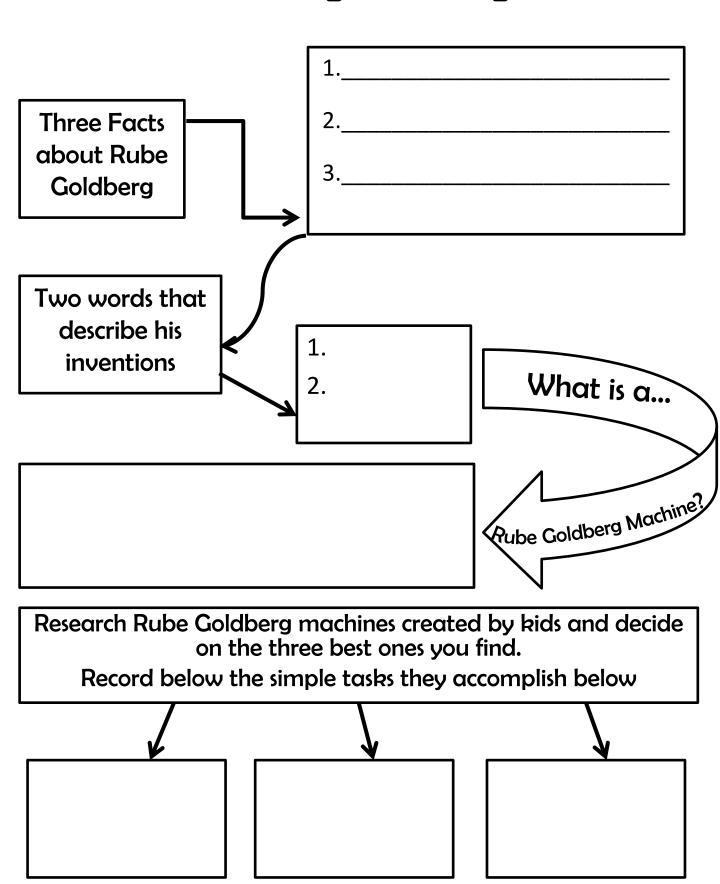
#### Who was Rube Goldberg?

Rube Goldberg was an inventor, cartoonist, sculptor, author, and engineer who believed that people preferred the hard way to do things. He gained notoriety by illustrating cartoons featuring complicated inventions that accomplished a simple task.

<u>Wr</u>	nat steps will you take to accomplish this project?
	Complete the SCAVENGER HUNT on Rube Goldberg and his creative ideas using the following useful websites and any others you find:
	□ http://www.rubegoldberg.com/
	http://mousetrapcontraptions.com/history-4.html
	http://wonderopolis.org/wonder/what-is-a-rube-goldberg-machine/
	IDENTIFY, ILLUSTRATE, LABEL and DESCRIBE how the most common 6 simple machines work
	CATEGORIZE the simple machines used in the 2010 Google Doodle that celebrated the birthdate of Rube Goldberg
	EXPLAIN the steps that occur in the Google Doodle leading up to the simple task of lighting a firecracker.
	DESIGN a digital Rube Goldberg Machine using one of the following websites:
	http://pbskids.org/zoom/games/goldburgertogo/
	http://archive.fossweb.com/modules3- 6/LeversandPulleys/activities/rubegoldbergmachine.html
	SKETCH a draft of a possible Rube Goldberg machine that accomplishes a simple task
	DESCRIBE and EXPLAIN the steps you plan for it to accomplish
	BUILD and TEST your Rube Goldberg machine
	DRAW and ILLUSTRATE your final design and EXPLAIN how it works. Split the steps into halves using diagonal lines if necessary to create more than 4 steps.



## Rube Goldberg Scavenger Hunt



6 Types of Simple Machines

# Simple Machines at Work Lever **Fixed Pulley** Moveable Pulley **Inclined Plane** Wheel and Axle Wedge Screw

#### http://tinyurl.com/rubegoogledoodle

List the objects being used as simple machines in the Google Doodle from Rube Goldberg's birthday in 2010. (use link above or picture below)



# Simple Machines at Work

### http://tinyurl.com/rubeanimateddoodle

List the STEPS that occur in the animated Google Doodle in the table below:

1)	7)
	8) and
3) Bird flies and hits the Statue of Liberty	9)
4)	10) Firecracker is launched and stars appear
5)  6) Lever breaks and bowling ball rolls	

