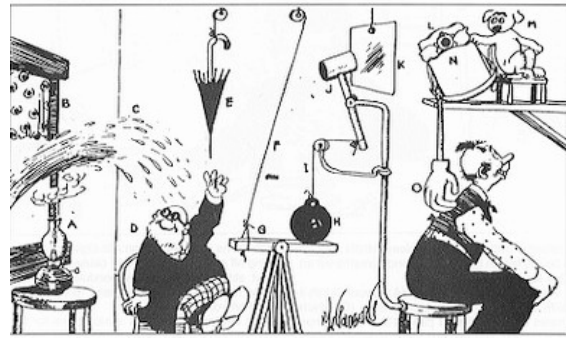


Rube Goldberg Contraptions
River's Edge Christian Academy
Due Date Thursday February 11, 2016
Visit <http://bugtug.org> for more details.
If a password is required use RECAScience.



These Guidelines are from PBS with modifications.

Like the famous cartoonist Rube Goldberg, you will design an unusual contraption that performs a simple task.

The purpose of this project is technological design. You are to create a problem and come up with solutions to solve it. For example, you may want to create a contraption that will turn the pages of a book. You must create a contraption with 4 causes and effects as part of the design. Use a series of simple machines. LABEL each simple machine by attaching its name to that portion of the Contraption. In some cases an item may be a complex machine. See below for specifics.

YOU ARE ALLOWED TO TEAM UP WITH ONE OR TWO OTHER STUDENTS.

Project specifications for your contraption:

1. The contraption should perform one task (page turner)
2. The contraption should be stable and can stand on its own.
3. The contraption may not be larger than 1 table (5' x 2'). We will have limited table space in the Devotions Room.
4. The contraption should be made using items found at home or borrowed from a friend. Please do not purchase anything for this project.
5. The contraption cannot take longer than 10 minutes to set up.
6. A "blueprint" must be drawn to turn on the day you present your contraption. Indicate the START and FINISH of your contraption. Use arrows to trace the route of movement.
7. Complete project must include more than one example of a simple machine. A complex machine, example model car, can only count as one simple machine.

Tips:

Look for easy to handle, durable materials. Check out your closets, toy boxes (sister or brother's room?), garage or junk drawers.

SAFETY: As you build your contraption, keep in mind that safety must be your first concern. Check with your parents before you use power tools, use electricity or lift heavy objects. Check with Mr. Wright if fire or anything dangerous will be used.

IDEAS FOR CONTRAPTIONS

KLENNEX OUT OF THE BOX
GOLF BALL IN HOLE
TOOTHPASTE ON BRUSH
HIT A TARGET WITH SOMETHING
SWITCH SOMETHING ON

LAUNCHING A PAPER AIRPLANE
RING A BELL
PUT AN ICE INTO A CUP
TURN ON A FLASHLIGHT
STAPLE SOMETHING

GOLDBERG GRADE SHEET

DUE DATE: THURSDAY

FEBRUARY 11, 2016

GROUP MEMBER NAMES:
YOU MAY DECIDE TO
COMPLETE THE PROJECT
WITHOUT OTHER TEAM
MEMBERS.

PURPOSE OF THE RUBE GOLDBERG: USE PACK OF SHEET IF
NEEDED.

	POINTS POSSIBLE	POINTS EARNED
SUCCESSFUL START THROUGH 1 ST CAUSE AND EFFECT	15 PTS.	
WITHOUT STOPPING THROUGH 2 ND CAUSE AND EFFECT	20 PTS.	
WITHOUT STOPPING THROUGH 3 RD CAUSE AND EFFECT	20 PTS	
WITHOUT STOPPING THROUGH 4 TH CAUSE AND EFFECT TO FINISH	20 PTS.	
ADD 5 POINTS FOR EACH DIFFERENT SIMPLE MACHINE USED	5-15 PTS	
DESIGN AND CREATIVITY	15 PTS.	
TOTAL SCORE		