

# 1/23/13 SIMPLE MACHINES

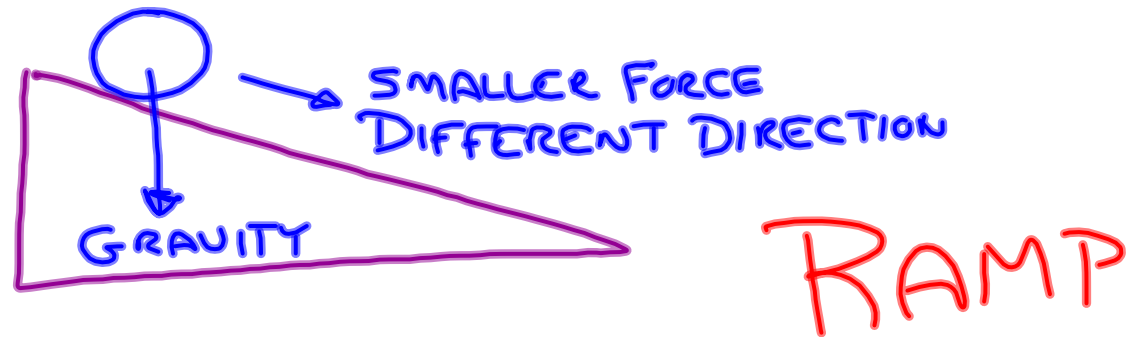
## FORCES:

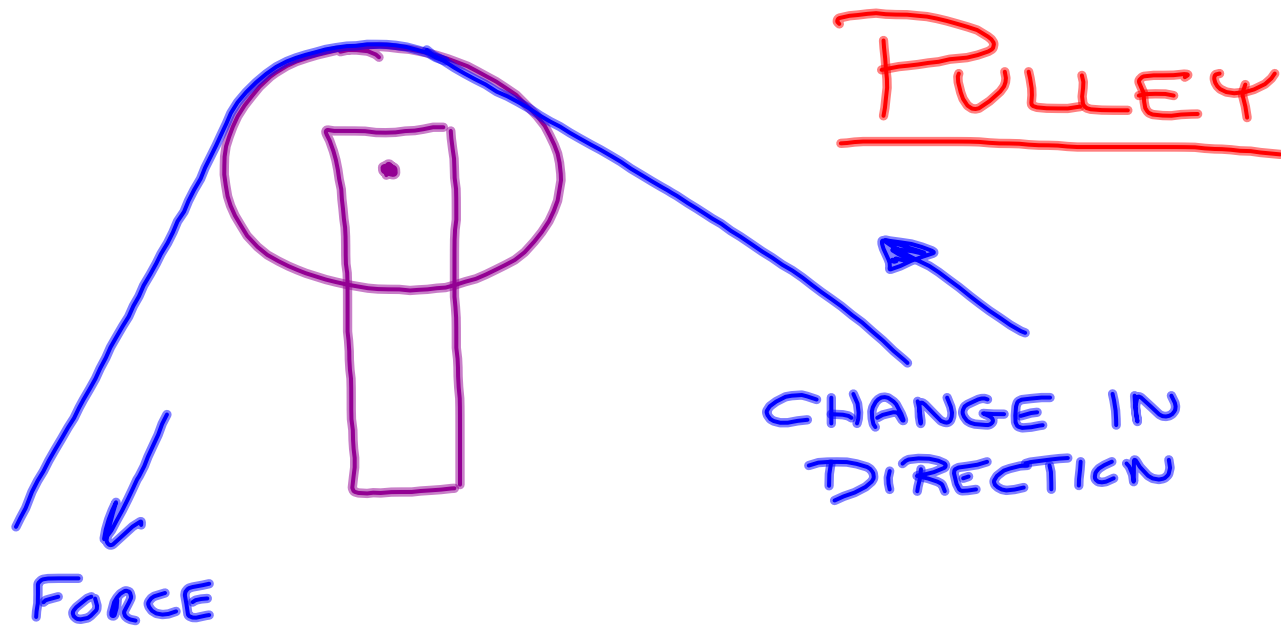
A FORCE IS A PUSH OR A PULL  
THAT CAN CAUSE THE MOTION OF  
AN OBJECT TO CHANGE.

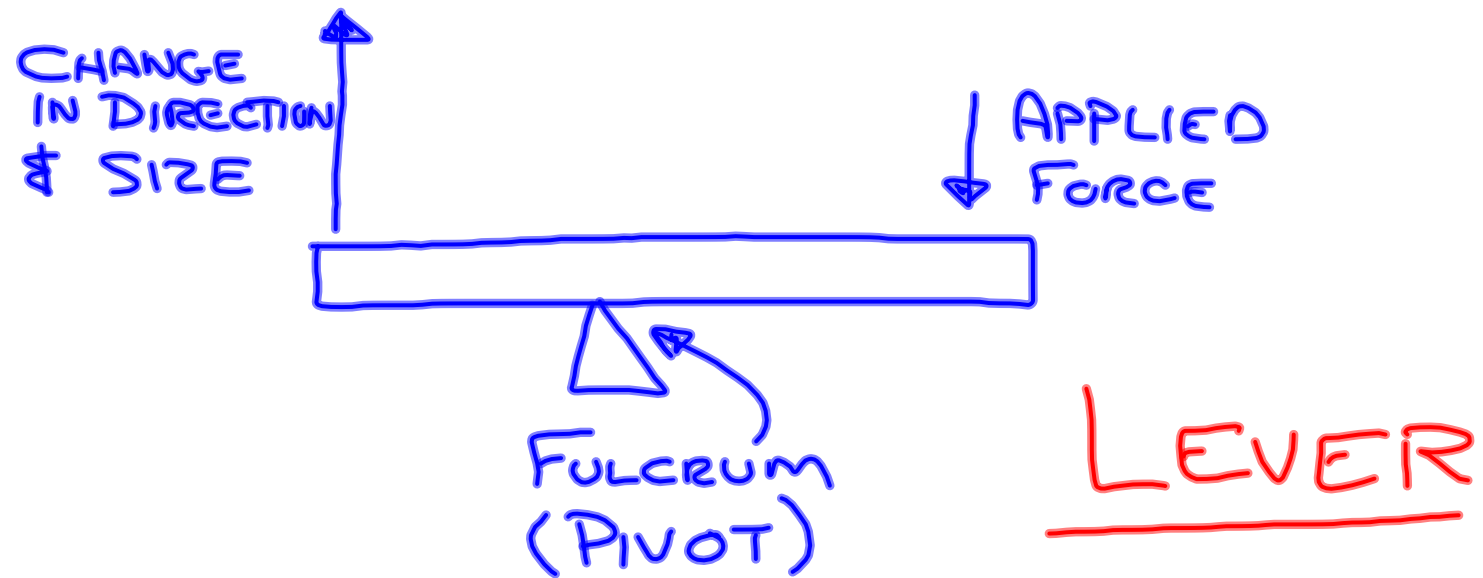
- SPEED UP
  - SLOW DOWN
  - CHANGE DIRECTION
- } FORCES CAN  
CAUSE OBJECTS  
TO ACCELERATE.



SIMPLE MACHINES ARE DESIGNED & USED  
TO CHANGE THE SIZE AND/OR DIRECTION  
OF A FORCE.







# RUBE GOLDBERG MACHINE (RGM)

## THUMBNAILS

- EVERYONE WILL DO ONE
- YOUR RGM MUST HAVE 5 DIFFERENT MACHINES (MINIMUM), & YOU MUST HAVE @ LEAST ONE LEVER, ONE PULLEY, & ONE RAMP.
- YOUR BASE WILL BE 16"x18"
- USE ONE, FULL SIZE 8.5"x11" PIECE OF PAPER.
- USE DESCRIPTIONS TO EXPLAIN EACH STEP

FOR A LEVER

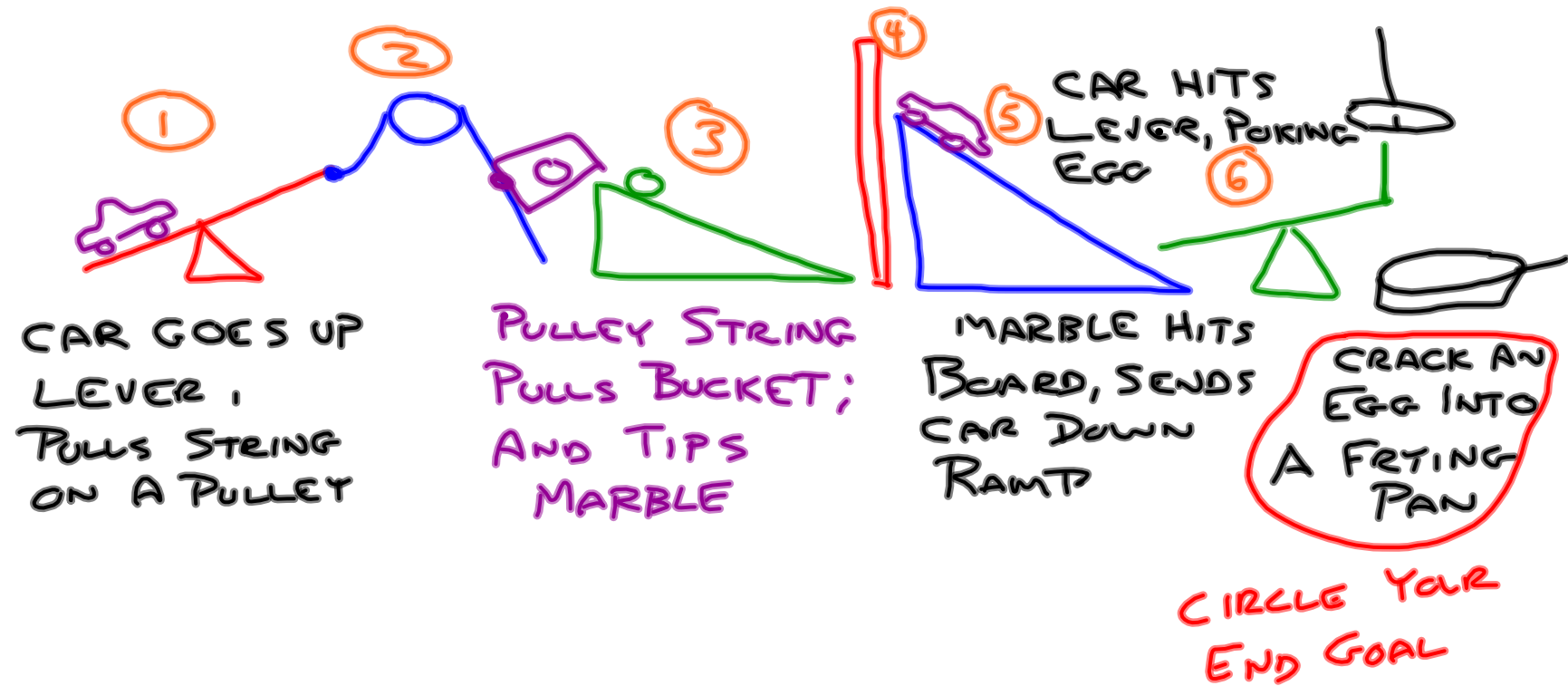


PULLEY =



RAMP =





WHEN YOU GET YOUR THUMBNAIL  
SKETCH DONE TODAY, GO TO THE  
SHOP & MAKE A LEVER WITH A  
BASE.