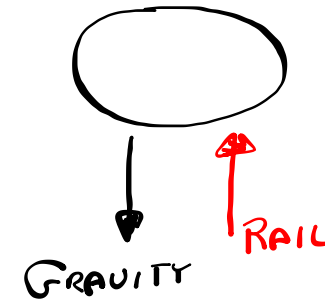


## 2/6/13 How To DRAW FREEBODY DIAGRAMS

1) FBD's SHOW ONLY THE FORCES ACTING ON A SINGLE OBJECT.



2) PUSHING FORCES CAN BE SHOWN AS ARROWS POINTING TOWARD THE OBJECT, WHILE PULLING FORCES CAN BE SHOWN WITH ARROWS POINTING AWAY FROM THE OBJECT.

3) ALL FORCES SHOULD BE LABELLED.

4) ONLY THE FORCES ACTING ON THE OBJECT ARE SHOWN. DO NOT SHOW THE FORCES THE OBJECT EXERTS ON OTHER THINGS.

5) THE LENGTH OF THE ARROW SHOULD CORRESPOND TO THE SIZE OF THE FORCE.

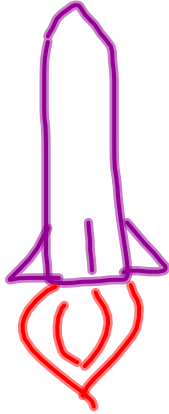


MR. K's FBD



CHICKEN WILL CONTINUE FORWARD  
BUT SLOW DOWN & FALL DUE TO  
UNBALANCED FORCES.

# ROCKET TAKING OFF.



ROCKET ACCELERATES UP  
BECAUSE OF AN UNBALANCED  
FORCE GOING UP.



# BEFORE GOING TO THE SHOP :

- PICK ONE PARTNER
- ON AN 8.5x11 PIECE OF PAPER :
  - MAKE A PLAN VIEW SHOWING YOUR 5 SIMPLE MACHINES.
  - LABEL EACH MACHINE AS A LEVER, PULLEY, OR RAMP.
  - DESCRIBE WHAT SIMPLE TASK YOUR RGM WILL DO.
- SHOW YOUR PLAN TO MR. K OR MR. B.
  - HAVE BOTH NAMES ON IT.