

2/25/15

NEWTON'S 1ST LAW

- 1) IF AN OBJECT IS AT REST, IT WILL NOT START MOVING UNLESS THERE IS AN OVERALL NET (OR UNBALANCED) FORCE ACTING ON IT.
- 2) IF AN OBJECT IS MOVING, IT WILL KEEP MOVING WITH THE SAME SPEED & IN THE SAME DIRECTION UNLESS ACTED UPON BY A NET (UNBALANCED) FORCE.
- 3) IF OBJECTS ARE SITTING STILL, THERE ARE NO UNBALANCED FORCES ACTING ON THEM. (OR ALL FORCES ARE BALANCED).
- 5) IF OBJECTS MOVE WITH CONSTANT SPEED & DIRECTION, THERE ARE NO OVERALL FORCES NET UNBALANCED ACTING ON THEM.

6) IF OBJECTS START TO MOVE, THEN THERE ARE UNBALANCED FORCES.

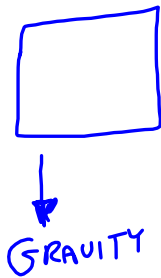
7) IF OBJECTS CHANGE DIRECTION OR SPEED, IT MUST BE DUE TO AN UNBALANCED FORCE.

4) CHRIS WAS HERE ☹️

NEWTON'S 1ST LAW WORKSHEET

1 SITUATION / WHAT HAPPENS TO / WHY?
 THE OBJECT

FBD



THE CHICKEN CONTINUES / THERE IS
TO GO FORWARD. / NO
\$ ACCELERATE DOWN / UNBALANCED
SIDWAYS FORCE.

→ UNBALANCED FORCE
IS GRAVITY.