WATCH THE FOLLOWING VIDEO TO UNDERSTAND THE LESSON:

https://drive.google.com/file/d/1IVXeROBQLD_QInZRnWXz5XCLsBODTQ-Y/view?usp=sharing

UNIT 5: FORCES

PART 3

FORCES CAN BE...

PUSH OR PULL

CONTACT AND NON-CONTACT

BALANCED OR UNBALANCED

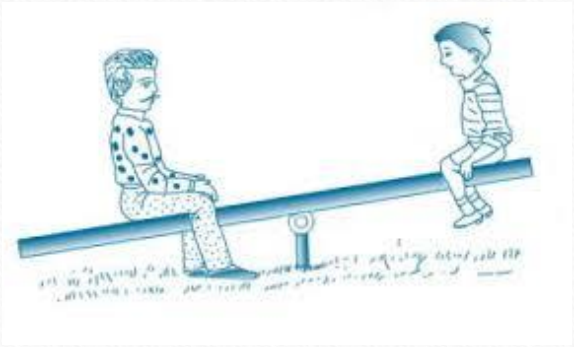
BALANCED FORCES: FORÇA EQUILIBRADA

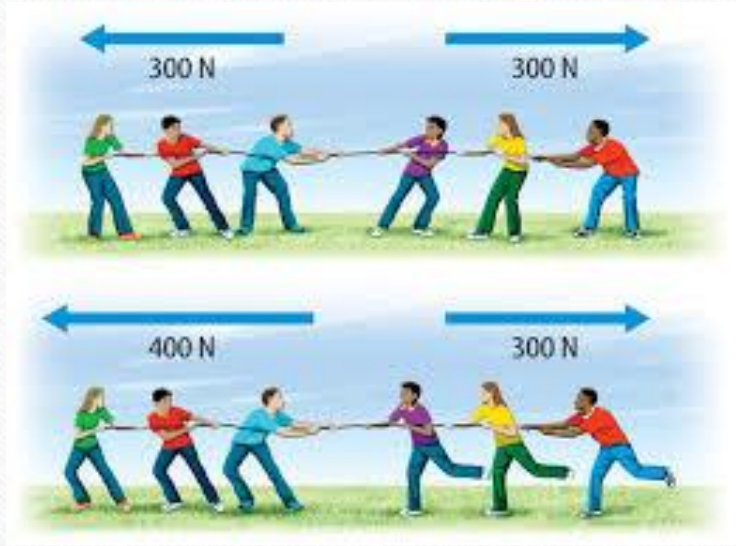
The two forces applied to the table are opposite and equal. Because the forces are **balanced** the table doesn't move.

UNBALANCED FORCES: FORÇA NO EQUILIBRADA

The two opposite forces applied to the table are not equal. Because the forces are **unbalanced** the table moves.

BALANCED AND UNBALANCED FORCES

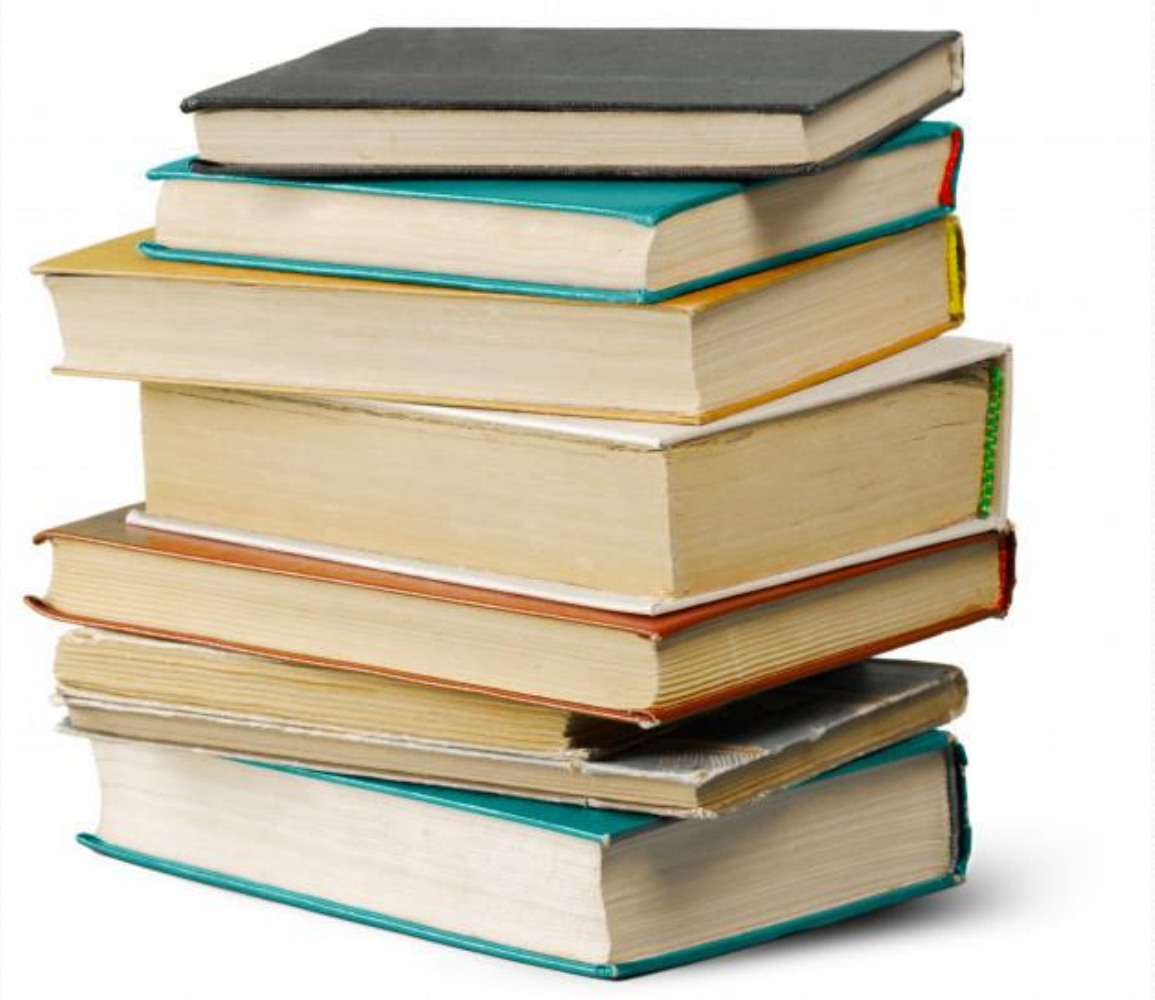




BALANCED FORCES

BALANCED FORCES MAKE

OBJECTS SIT STILL



UNBALANCED FORCES

UNBALANCED FORCES MAKE OBJECTS MOVES

WIND CAN MOVE OBJECTS

WHEN THE WIND BLOWS HARD, MAKE OBJECTS MOVE FAST.

IT IS AN UNBALANCED FORCE.

WIND TURBINES MOVE WITH WIND ENERGY.

EXPERIMENT TIME: BUILD A PAPER WINDMILL

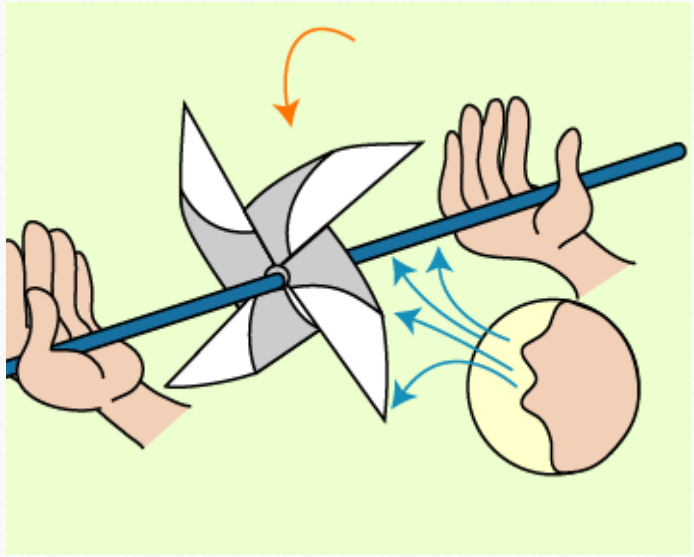
WATCH THE VIDEO AND FOLLOW THE STEPS:

https://www.youtube.com/watch?v=AZrP2vSqhQ4

MATERIAL 📰 ✂ 📌

Piece of paper
Plastic straws
A pin
Tape
Scissors
Glue

EXPERIMENT TIME: BUILD A PAPER WINDMILL



1. Place it outside: window, garden, terrace…
2. If it is a windy day take a moment and check.

   Can wind move your windmill?

3. If there is no wind, you can also blow.

VOCABULARY

Balanced force: força equilibrada

Unbalanced force: força no equilibrada

To blow: bufar

LISTENING 1: FORCES CHANT

https://drive.google.com/file/d/1B1PQFQZL_P6YQTMTEBHSQYBBY9T_HRYV/view?usp=sharing

Ready, steady 1, 2, 3
Can you say this chant with me?
Contact forces, non-contact forces.
All forces are a push or a pull.
They make things move
Like pedalling a bike
Lifting a rock
Throwing a ball
And putting on a sock.
Contact forces, non-contact forces.
All forces are a push or a pull.
They change something's shape
Like squeezing a sponge,
Bending a stick
Folding a towel
And dropping a brick
Contact forces, non-contact forces.
All forces are a push or a pull.

TASK

IF YOU WANT TO TAKE A PHOTO OF YOUR WORK AND SEND IT TO US, WE WILL BE HAPPY:

4TH A – FCPS.SCIENCE.DEPARTMENT@GMAIL.COM

4TH B / 4TH C – FCPS.ELISABETH.SUAREZ@STJOSEP.COM

THANKS! 

SCIENCE DEPARTMENT

Eli Suárez and Laia Santís
Juny 2020

*Images found through Google website for classroom purposes and Science Book.