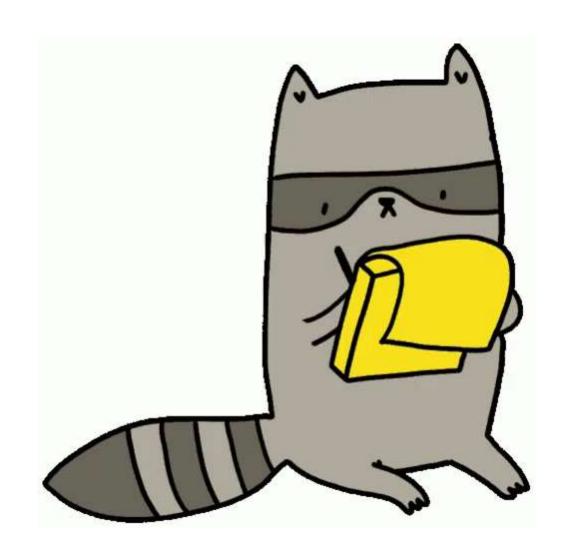
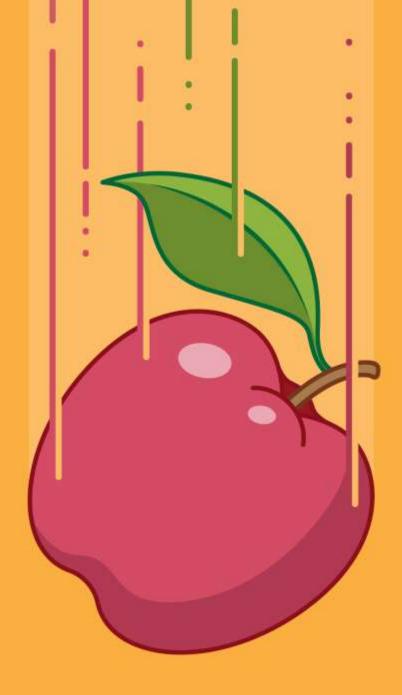
Get some paper and a pen!

Get some water!





- Forces Review
 - Gravity
- Air and Water Resistance



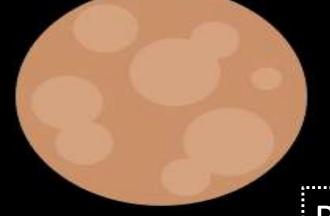
We studied this last week! You should know everything!

Friction



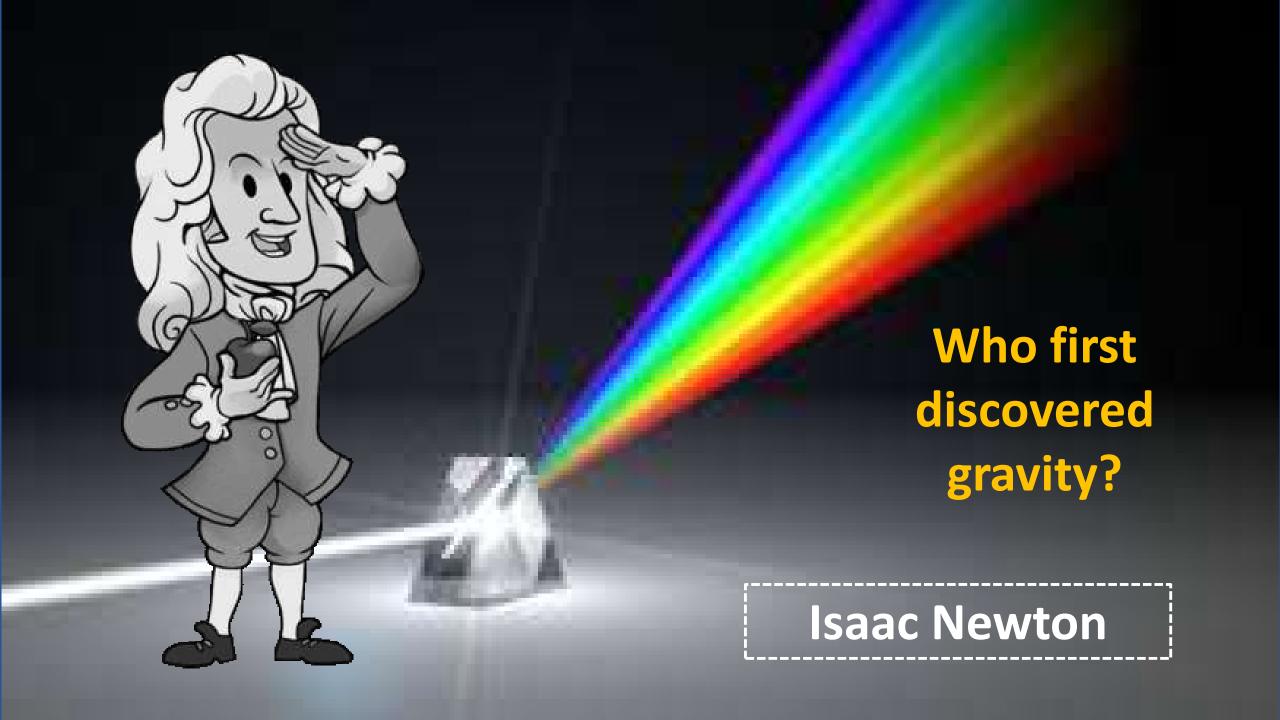
What force pulls the astronaut down?

Gravity!!





Remember weight is a force caused by gravity.



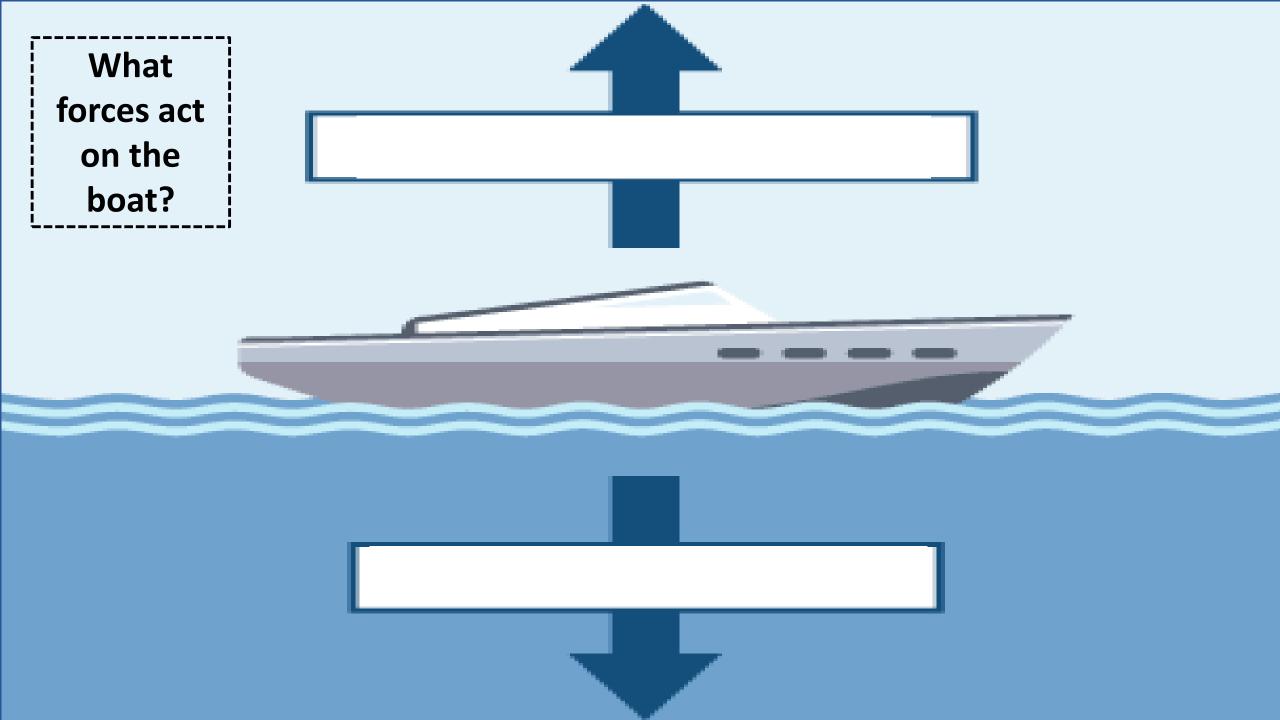
Remember gravity is different on different planets.



This means your weight is different.

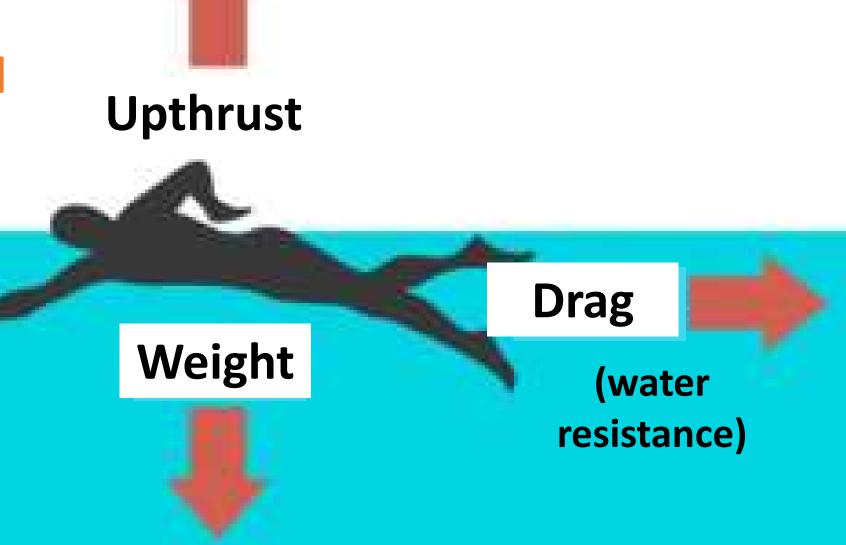
weight = gravity x mass

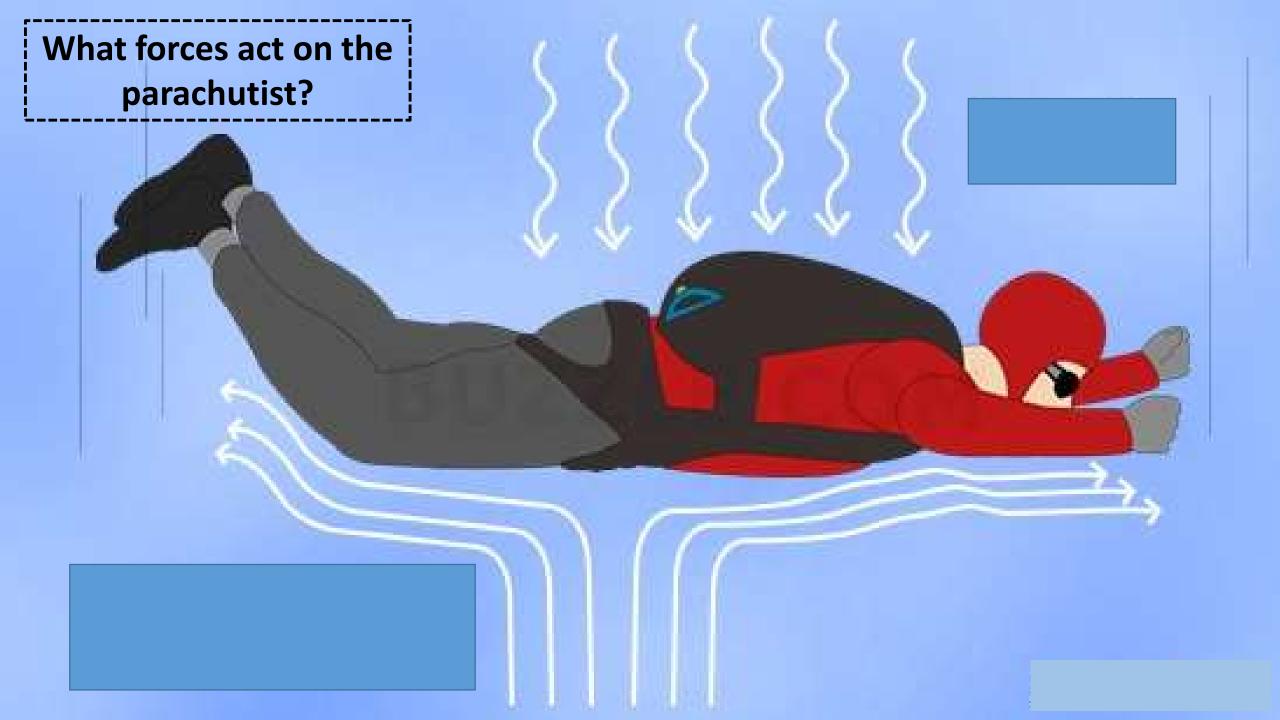
N = gravity x kg

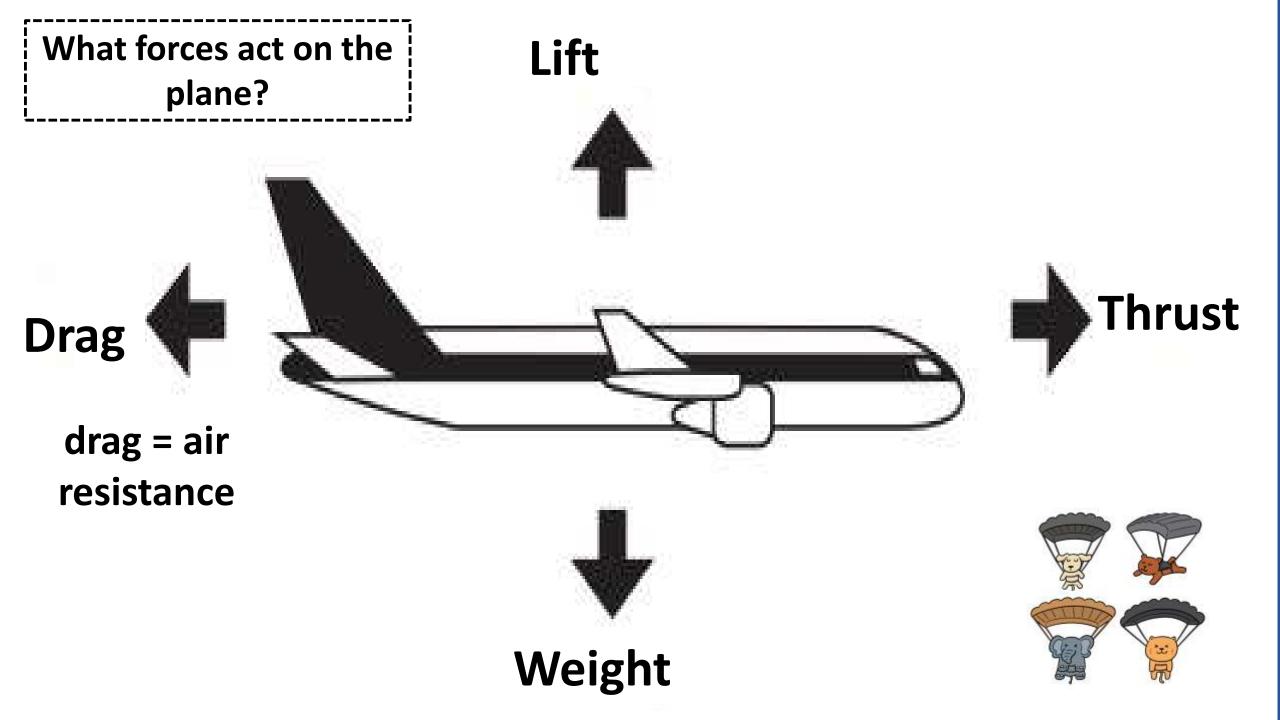


Remember water and air resistance reduce the speed of an object.

Thrust

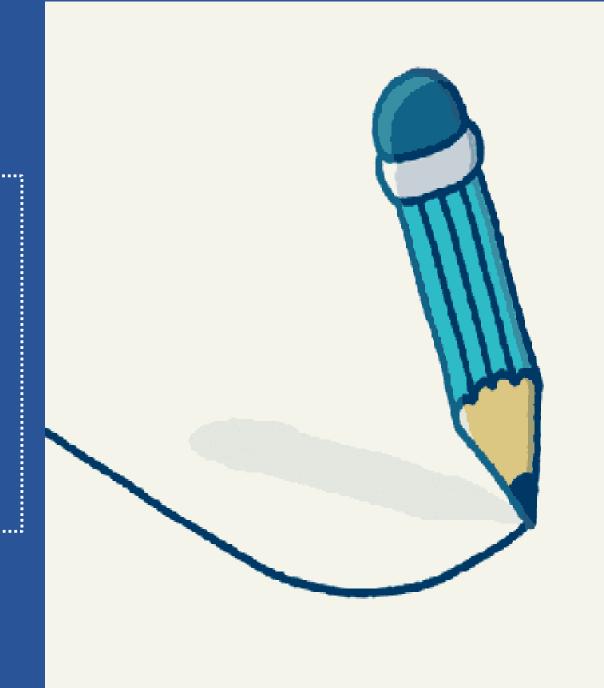






The force arrows are missing! Draw arrows when the teacher asks you to!

Don't draw until you are asked to.



Draw a force arrow for gravity.



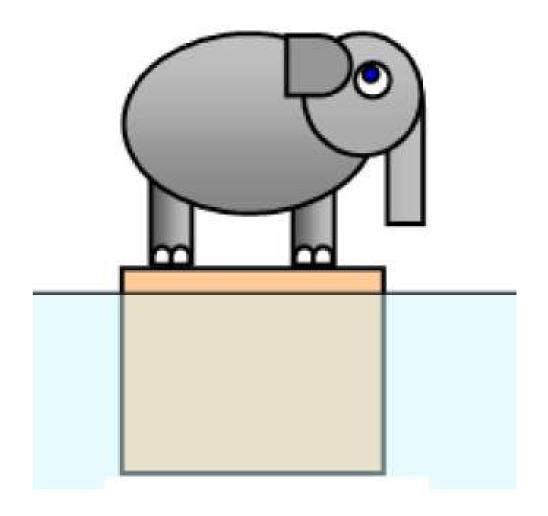
Draw a force arrow for air resistance.



Draw a force arrow for water resistance.



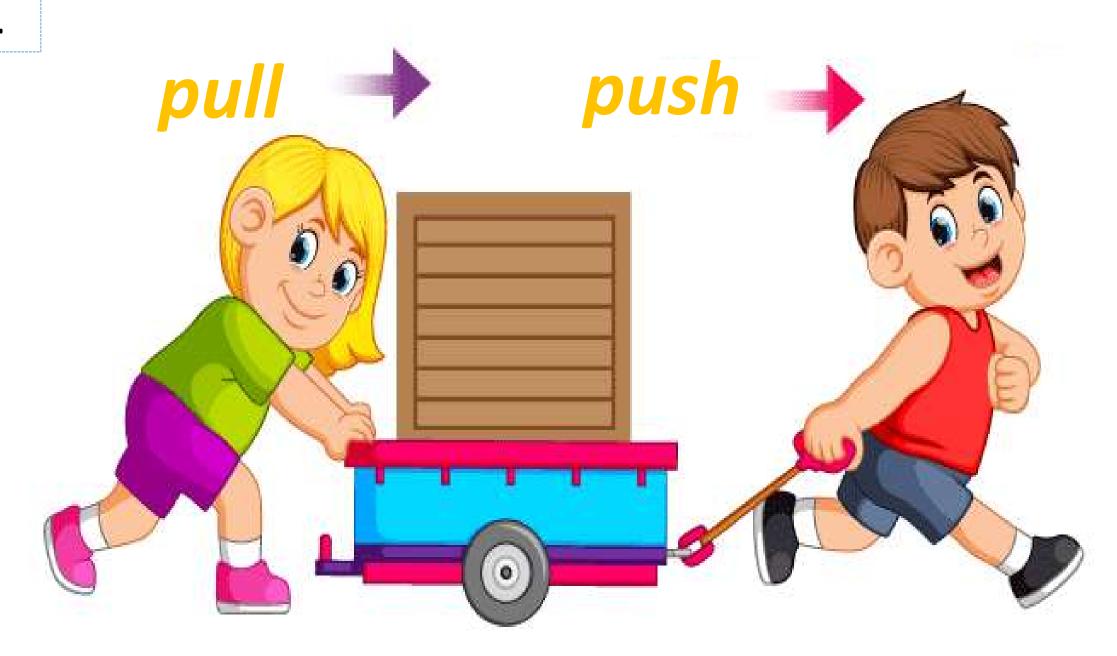
Draw a force arrow for upthrust.



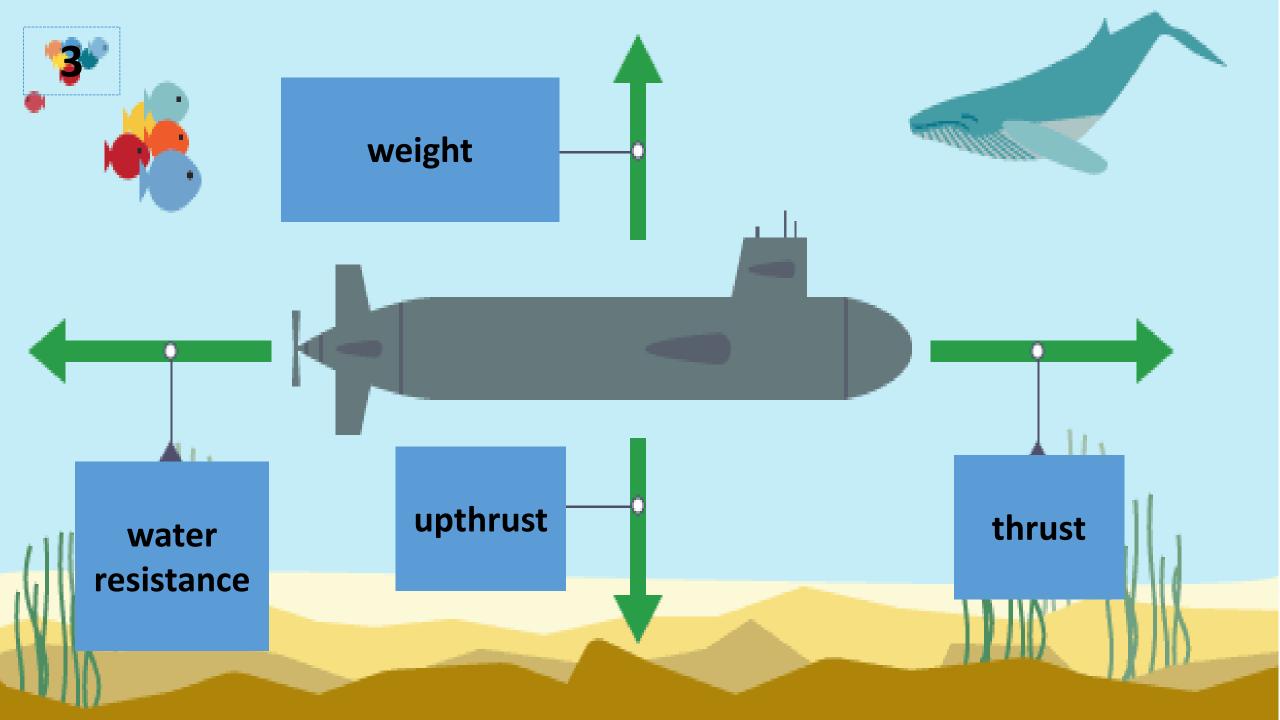
There is something wrong with all these pictures.

Write what is wrong on your paper.



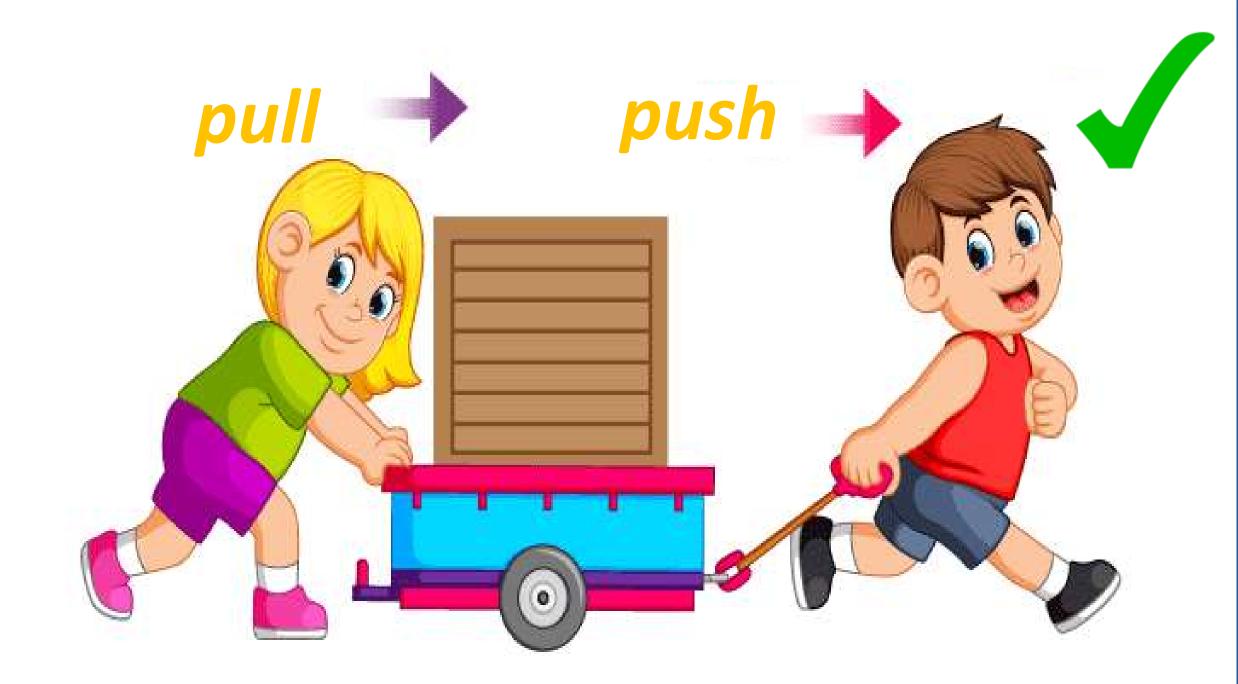




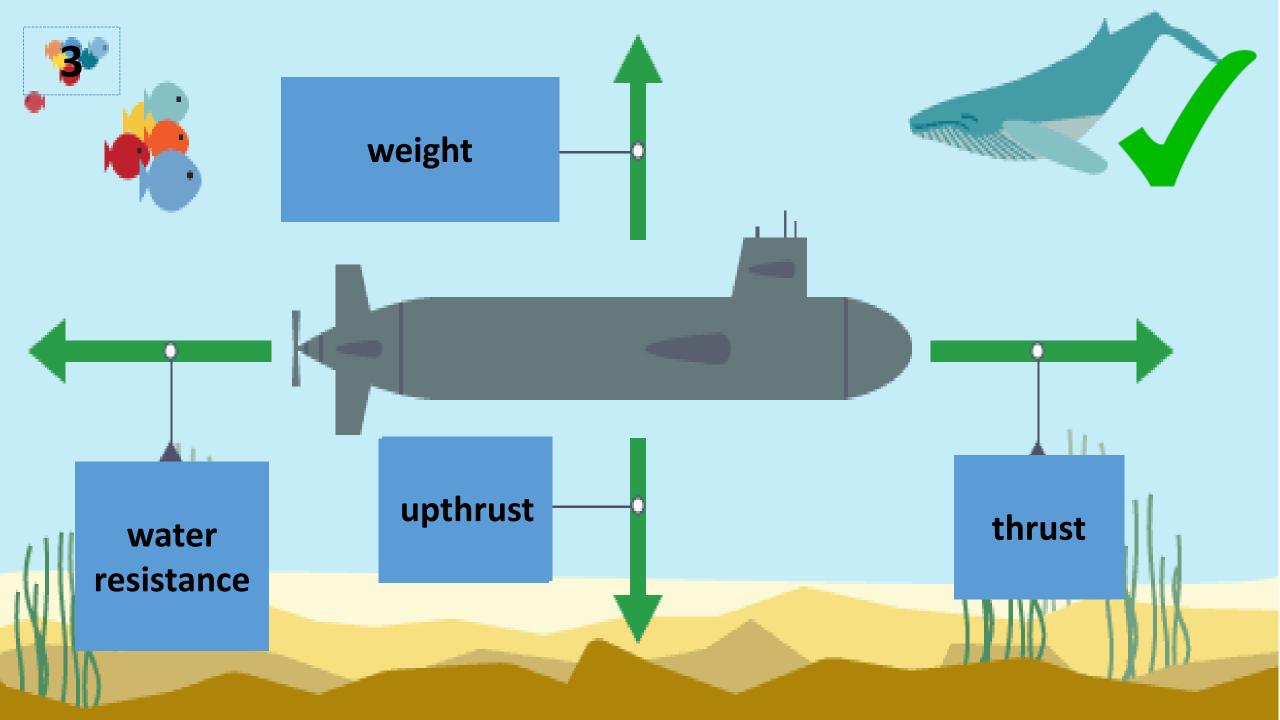




Let's find the answers!





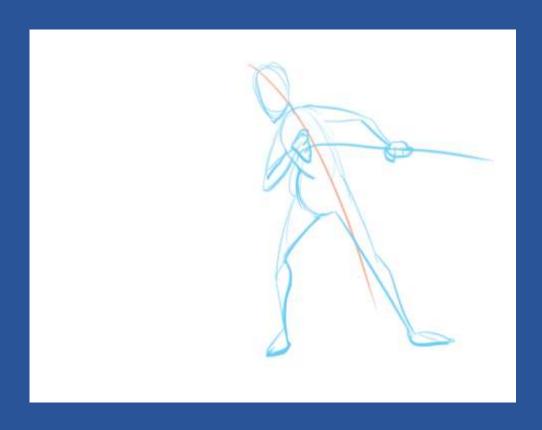


Review Time Forces we have studied:

Push

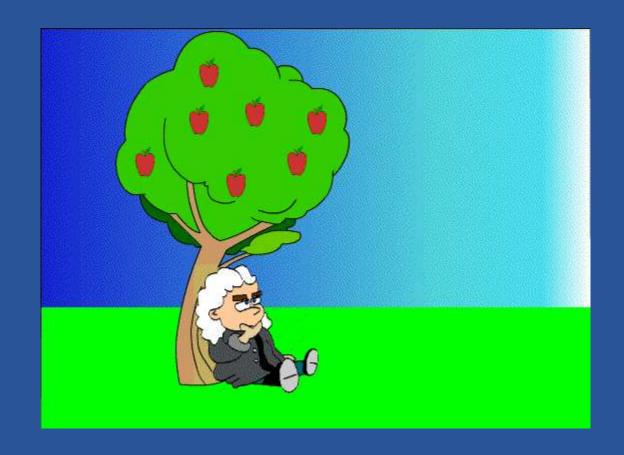
Pull





Review Time

Forces we have studied:



Gravity

First discovered by Isaac Newton.

Review Time

Forces we have studied:

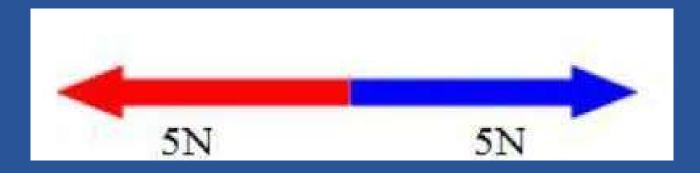
Air and
Water
Resistance



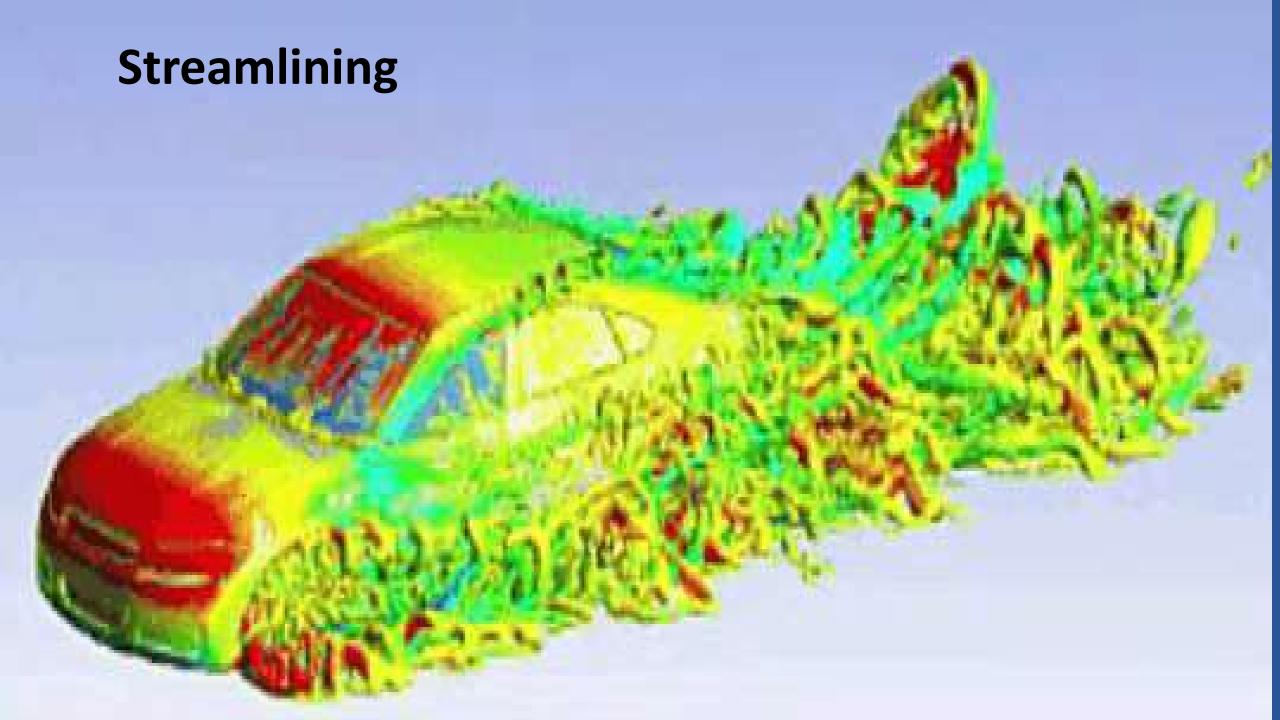
Review Time

Force arrows:

Force arrows show the direction and strength of a force.



Sometimes the forces are balanced.



What is special about the burger's shape?

It is streamined.

Most burgers are not really streamlined!
Only if they are curved and flat.

CHEESEBURGER 05:31:56:23

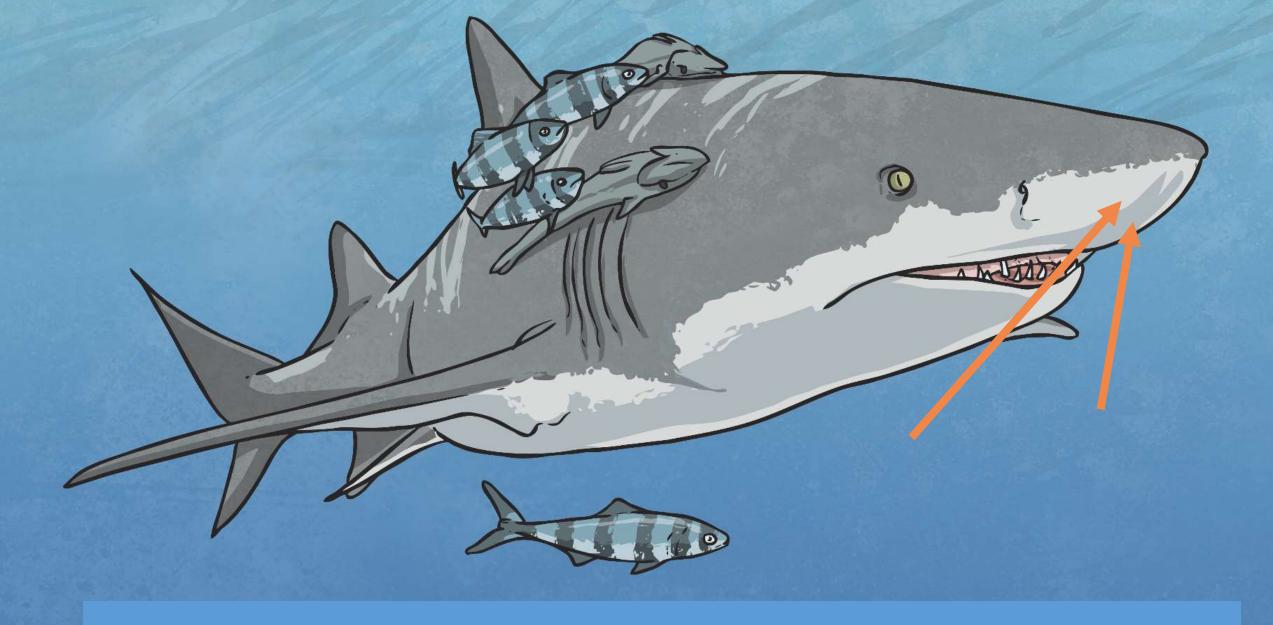
MACH 0.0521329 : ZD 0035+06



Curved shapes reduce air and water resistance.

They are streamlined.





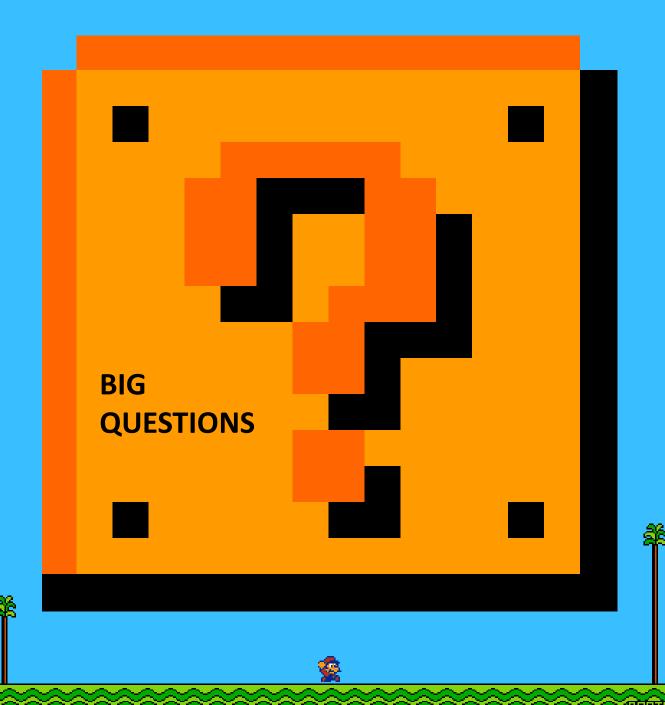
The shark has got a streamlined nose - it can swim easily.



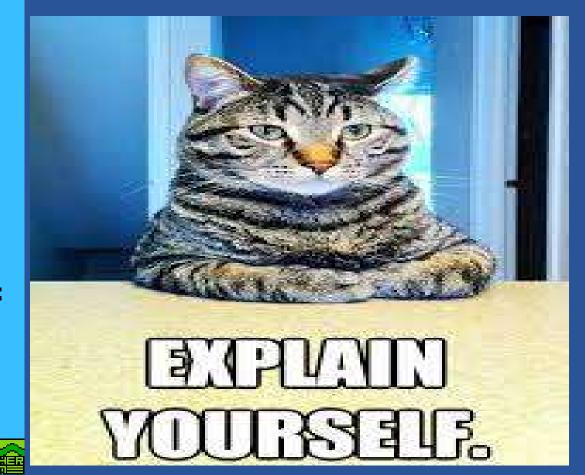
Streamlined shapes reduce air or water resistance.

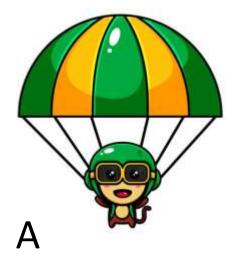


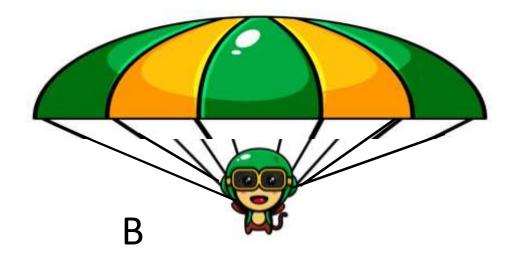




Answer these questions on paper.

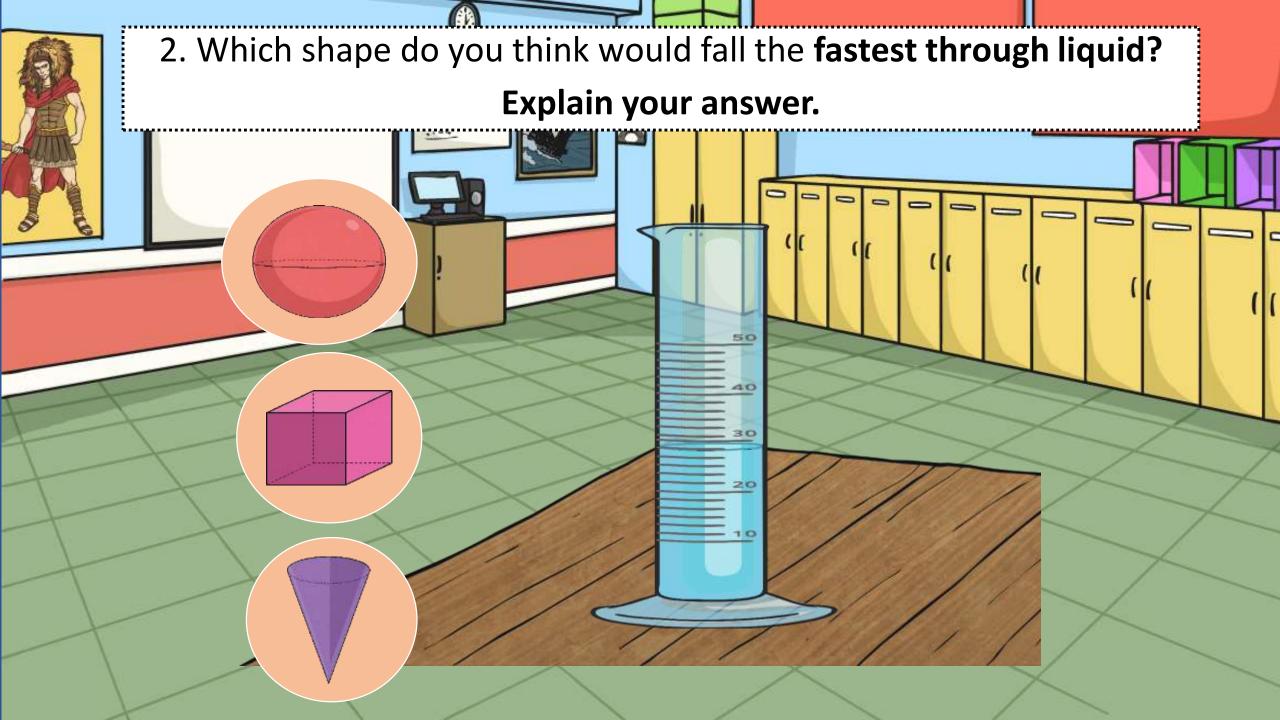




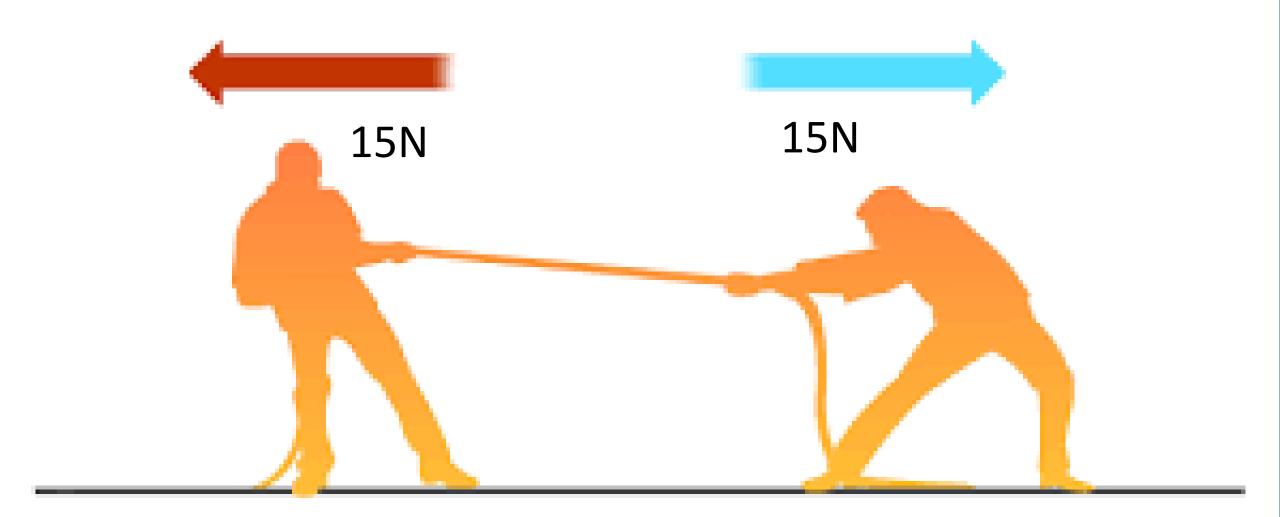


1. Which monkey would reach the ground first?

Explain your answer.



3. Who would win this game of tug 'o' war? Explain your answer.





4. Which skiier would move down the mountain the fastest?

Explain your answer!

5. You are going walking on ice. Which shoes would you choose?

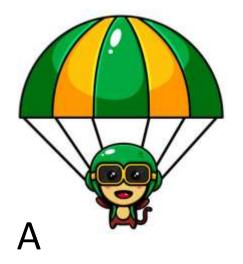
Explain your answer!!!

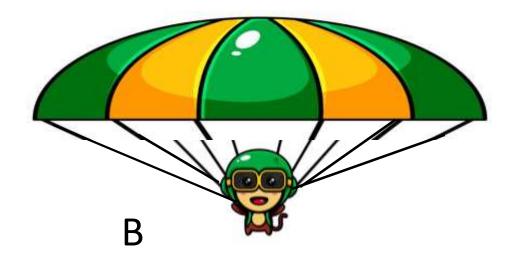






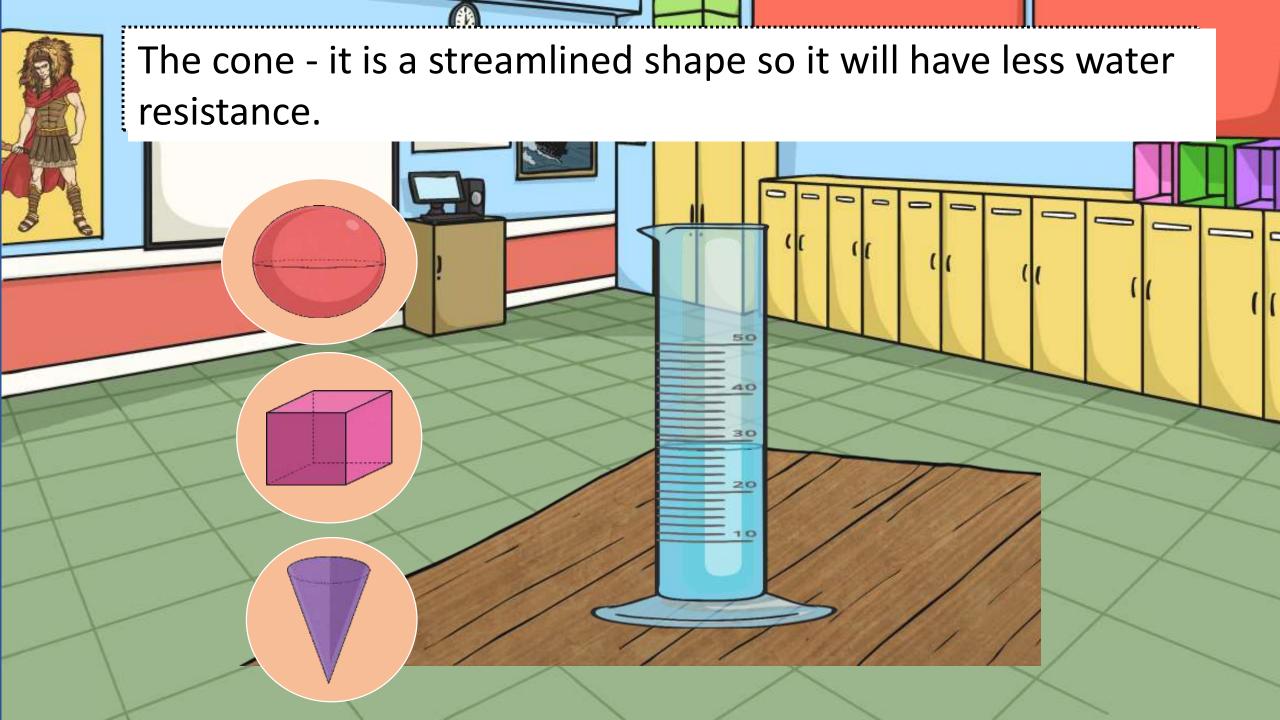
Answers





1. Which monkey would reach the ground first?

Monkey A - The parachute is smaller Explain your answer.
There will be less air resistance.



The forces are balanced. Nobody would win!







4. Which skiigh weuld troy and what a with the stest?

friction.

Explain your answer!

5. You

We should wear the colourful ones - they have more grip - that will make more friction.

Explain your answer!!!



A

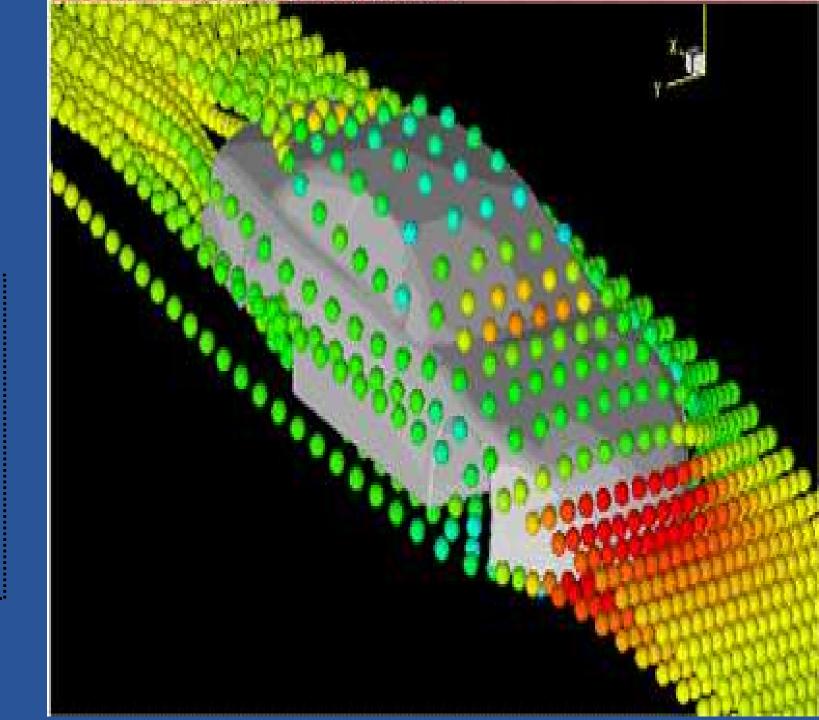
B

Review Time

Streamlining:

Curved, smooth shapes are streamined.

They reduce air or water resistance.



Review Time

Streamlining:

Large surfaces will have more air resistance.



So far we have reviewed:

- Forces

- Force Arrows

- Explain yourself!

Now le't do the Among Us science quiz!

