

# Gravity

*What is it?*

<http://www.fi.edu/pieces/cych/apollo%2010/story/hoi/ball3.html>

<http://www.fi.edu/pieces/cych/apollo10/story/hoi/ball.html>

# Gravity is...

- A natural force that pulls all objects toward the center of the earth.



*WHAT IS A FORCE?*

A pull or a  
push on an  
object



Which do you think would fall first?

- A bouncy ball

Try It!

Or a marble

They fall at the same rate of speed,  
**but** the marble has more mass  
(weight) and so gravity makes it fall  
harder!

Gravity has a stronger force on  
things with more mass!

It takes a force to overcome  
gravity!

Throw a bean bag in the air  
and then...

Throw a basketball in the air.

Which one was harder to throw?

- You had to use more force to throw the basketball because it has more mass (weight)



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