#### April 17, 2013

#### WARM UP

#### NEW SEATS! CHECK THE SEATING CHART ON THE FRONT DESK.

- Fill out the anticipation guide for the Physics Unit.
  - Indicate whether or not you agree or disagree with the statement by circling the appropriate shuttle.
  - Make sure your name in on the worksheet and keep in it a secure place. We will refer to it later in the quarter.

LET'S READ THROUGH THE BASICS OF FORCE AND MOTION.

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Apr 7-8:02 PM



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- Motion is defined as the state in which the distance from another object is changing.
- > Motion is typically determined by use of stationary reference points.
  - > Reference points are a place or object used for comparison to determine if something is in motion.
  - Stationary or permanent fixed objects make good reference points because their position is fixed, it doesn't change.
  - Moving objects make poor reference points because objects in motion make it difficult to determine the motion of another object.



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#### • Relative motion

- > Motion depends on the reference point that you choose.
- > All things are in constant motion.
  - This is due to the fact that the *Earth is in constant motion around the sun*.
  - Everything on Earth is moving at the same speed (30 km/s) however, because it is all riding on Earth and traveling at the same speed even "stationary" objects appear to not be moving.



WALROD (AP -the state in which the distance from another object 1.) What is motion? is changing; a change in position 2.) Explain why everything -because the Earth is in constant motion as it rotates is constantly in motion. around the sun, so everything on Earth moves with it 3.) What type of object -a stationary object makes a better reference point?

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You will work in your cooperative groups to complete the lab activity.
Group Roles:

Group Leader
Time Keeper
Distance Measurer
Ramp Holder/Marble Retriever

You will be responsible for completing your own lab sheet. All boxes must be filled in, all questions must be answered, and both graphs must be complete and attached. Lab sheets are due on Wednesday!

- Acceleration
  - in everyday terms it's described as the process of "speeding" up.
  - > Scientifically it is the rate a which velocity changes.
  - > Velocity is speed in a given direction and can change in 3 ways.
    - > Increase speed
  - > Decrease speed> Change directions



> Deceleration is "negative" acceleration.

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- When you have completed your quiz, turn it over and place it on the corner of your desk.
- Work on the acceleration worksheet.
- The worksheet will be homework if not completed in class.







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