Forces and Motion

Vocabulary
Unit 4

VELOCITY
• The _______ and _______ of a _______ object
  • Example: A bird moving east at 15 mi/hr

FORCE
• A _______ or a _______

ACCELERATION
• An object’s _______ in _______ divided by the _______ it takes for that _______ to occur.

INERTIA
• The tendency of _______ to _______ a change in its state of _______.

BALANCED FORCE
• _______ forces that act in _______ directions on an object and _______ one another out.
UNBALANCED FORCES
- ________ that do __________ cancel one another out

FRICITION
- A ________ that acts ________ any two __________ in contact with one another. It prevents or slows motion.

GRAVITATIONAL FORCE
- The ________ that acts between any __________ __________ in the universe and __________ them toward one another.

WEIGHT
- The __________ of the ________ of ________ on an object.

MASS
- The __________ of ________ has.

MOMENTUM
- The ________ of an objects’ _______ and ________.
  - \[ P = m \times v \]
  - A car’s mass is 120 kg and moving at 10 m/s going North. What is the momentum? 120 \times 10 =