Study guide for Motion and Forces

Force
Newton
Net Force
Balanced Forces (Explain what they are and what <u>effect</u> they have on an object's motion.)
Unbalanced Forces (Explain what they are and what effect they have on an object's motion)
Terminal velocity (Explain what it is and what has to happen to the forces on an object to obtain
terminal velocity)

Ine	rtia

Friction (Explain what it is, why it happens, and how to increase or reduce friction)
One thing that affects friction is force between objects and as it increases, friction
 Another factor that influences friction is surface area, and as it increases, friction
 The third factor that influences friction is surface substance, and as it increases (or gets rougher), friction
Four types of friction and examples:
Static:
■ Ex.
Sliding:
■ Ex.
Rolling:
■ Ex.
Fluid: (Make sure you know that both liquids and gases are fluids.)
■ Ex.
The two factors that affect gravity and how they affect gravity:
One thing that affects gravity is and as it increases, gravity
The other factor that influences gravity is, and as it increases, gravity

Newton's 3 Laws of Motion (Define and be able to apply all three laws to real life events.)
1 st law:
2 nd law:
If the mass of an object increased, but the force on it stayed constant then
the acceleration of the object would
о Ех:
If the force on an object increased, but the mass of the object stayed the
same then the acceleration would
o Ex.
3 rd law:
 If an action force was wind pushing/pulling on a windmill
The reaction force would be the pushing/pulling
The result of the action force would be:
The result of the reaction force would be:
Motion
Frame of Reference

Speed	
Velocity	
How can a location or position be described?	
What do you need in order to be able to calculate the sp	eed of an object?
What is acceleration and how is it measured?	