

1. **STUDY ALL SPEED WORKSHEETS AND LABS*****

- Velocity = _____ example of units? _____
- Car acceleration graph

2. **FORCES** - Be able to calculate net force, and direction of force by looking at a diagram



Be able to do a Spring scale conversion: if 1 cm=6N, then 4 cm=____N, 2.5 cm=____N

- Balanced forces: _____ Unbalanced forces: _____
- Elastic forces? _____
- know the forces notes**

a. same direction _____, opposite direction _____, net force on a diagram

2. **NEWTON'S LAWS**

- 1st law: (_____; _____) _____ The more _____ an object has, the more _____
- 2nd law: (_____) _____
- 3rd law: (_____) _____
- Know units for Mass = _____ acceleration = _____ force = _____

3. **VOCABULARY** - velocity, **acceleration**, Newton, Inertia, Force (and all the types of forces), balanced force, unbalanced force, tension, compression, gravity, weight, friction, Newton's laws (1st 2nd 3rd), universal law of gravitation, fulcrum, normal force, forces for flight, terminal velocity, velocity

4. **Momentum**- formula _____

- Transferred, lost, or gained?

5. **Understand the four types of friction:**

S _____, S _____, R _____, F _____

Which requires the most amount of force? _____ least? _____

Labs to know:

SeeSaw Lab

Friction

Car Acceleration Lab

1st Law Lab

Surface Board Lab

Be able to label these terms on a drawing of a car on a ramp: **gravity**, **net force**,
normal force, **frictional force**

Also be able to **draw the vector** (arrow showing direction) for each.