

Newton's Laws of Motion

Part I: Fill in the blanks below to state Newton's three laws of motion:

- **Newton's 1st Law** → All objects will remain at _____, or will continue to move at a constant _____ in the same _____ unless acted upon by an unbalanced _____. This property is called _____.
- **Newton's 2nd Law** → Unbalanced forces cause an object to _____. This can be stated mathematically by the formula:

$$F = \underline{\hspace{2cm}} \cdot \underline{\hspace{2cm}}$$
- **Newton's 3rd Law** → Every action produces an equal and opposite _____. When one object exerts a force on another object, the second object pushes back with the same amount of _____.

Part II: Use Newton's 2nd Law of motion to solve each problem. Show your work in your science journal. Then record the correct answer here (with proper units!)

- 1) How much force is needed to accelerate a 66 kg skier at 2 m/s²?
- 2) What is the force on a 1,000 kg elevator that is falling freely at 9.8 m/s²?
- 3) What is the acceleration of a 50 kg object pushed with a force of 500 newtons?
- 4) The mass of a large car is 1000 kg. How much force would be required to accelerate the car at a rate of 3 m/s²?
- 5) A 50 kg skater pushed by a friend accelerates 5 m/s². How much force did the friend apply?
- 6) A force of 250 N is applied to an object that accelerates at a rate of 5 m/s². What is the mass of the object?

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