

## Week #1 Homework Questions

### Newton's Laws of Motion

1. What two subjects did Isaac Newton work on developing? \_\_\_\_\_

& \_\_\_\_\_

2. The first law says that an object at rest tends to stay at rest and an object in \_\_\_\_\_

tends to stay in \_\_\_\_\_ with the same direction & \_\_\_\_\_

3. Motion, or lack of motion cannot change without an unbalanced \_\_\_\_\_ acting.

4. Which law of motion is shown during video footage of astronauts? \_\_\_\_\_

5. The second law of motion says that the \_\_\_\_\_

of an object produced by a net total applied force is directly related to the magnitude of the force.

6. The more \_\_\_\_\_ applied to an object, the more it accelerates.

7. The third law states that for every \_\_\_\_\_ there is an equal and opposite \_\_\_\_\_.

8. Give an example of a force that is working in pairs that would be similar to the example of a person sitting on a chair. \_\_\_\_\_

\_\_\_\_\_

9. Give an example of Newton's 1<sup>st</sup> law of motion. \_\_\_\_\_

\_\_\_\_\_

10. Give an example of Newton's 2<sup>nd</sup> law of motion. \_\_\_\_\_

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