



As you read through the information in the PowerPoint, complete the sentences below with the vocabulary list.

1. Sir Isaac Newton- _____

2. "The _____ of an object is directly proportional to the _____ and inversely proportional to its _____."

• _____ = _____ x _____

3. Force- _____

4. Mass- _____

5. Weight- _____

6. Acceleration- _____

3 ways to accelerate are:

- _____
- _____
- _____

7. How to calculate Acceleration: Acceleration = _____

8. Acceleration is _____ related to the size and direction of the _____.

9. Acceleration is _____ related to the _____ of the object.

- Using the same amount of mass....

- _____ = _____

- _____ = _____

- Using the same amount of force....

- _____ = _____

- _____ = _____

10. The units used for force are _____ (_____)

11. The units used for mass are _____ (_____)

12. The acceleration units are _____ (_____)

13. 1 N = _____

14. A falling object accelerates toward the Earth because of the _____

15. The acceleration due to gravity is a constant on Earth, _____.

16. _____ is the force of air exerted on a falling object. The air pushes up as gravity pulls down. It is dependent upon the shape and surface area of the object.

- In the absence of air resistance, all objects will _____ due to gravity.