

Name: \_\_\_\_\_ Date: \_\_\_\_\_

### Motion & Force WebQuest

**Directions:** Use the below websites to locate the answers to the below questions.

<http://teachertech.rice.edu/Participants/louviere/Newton/>

1. Who was the scientist who gave us the Laws of Motion?

\_\_\_\_\_

2. How many Laws of Motion are there? \_\_\_\_\_

3. What is another name for the first law of motion?

\_\_\_\_\_

4. Which law explains why we need to wear seatbelts?

\_\_\_\_\_

5. Which law says that force is equal to mass times acceleration ( $F=MA$ )?

\_\_\_\_\_

6. Which law says that heavier objects require more force than lighter objects to move or accelerate them? \_\_\_\_\_

7. Which law explains how rockets are launched into space?

\_\_\_\_\_

8. Which law says that for every action there is an equal and opposite reaction?

\_\_\_\_\_

[http://library.thinkquest.org/CR0215468/force\\_and\\_motion.htm](http://library.thinkquest.org/CR0215468/force_and_motion.htm)

9. What is friction? \_\_\_\_\_

\_\_\_\_\_

10. What is gravity? \_\_\_\_\_

11. What is momentum? \_\_\_\_\_

<http://www.lemaymuseum.org/files/library/9ae4622137be529e.pdf>

12. \_\_\_\_\_ is a force that pulls things towards the earth.
13. A \_\_\_\_\_ or a \_\_\_\_\_ can set a still object in motion.
14. A push or pull against an object in motion can \_\_\_\_\_ it.
15. The tendency of something to keep moving or stay at rest unless a greater force stops or moves it is called \_\_\_\_\_.
16. Force must be applied to put something into \_\_\_\_\_ or to \_\_\_\_\_ it from moving.
17. The rubbing of car tires against the road is an example of \_\_\_\_\_.
18. A \_\_\_\_\_ is a push or a pull.

<http://www.harcourtschool.com/glossary/science/index4.html>

19. The amount of matter that something contains is called its M\_\_\_\_\_.
20. The weight of an object depends on its G\_\_\_\_\_, the force that pulls any two objects toward each other.
21. F\_\_\_\_\_ is the push or pull on an object that can cause it to change motion.
22. A force that keeps objects that are touching each other from sliding past each other easily is called F\_\_\_\_\_.
23. E\_\_\_\_\_ is the ability to cause a change.
24. W\_\_\_\_\_ is what is done when a force moves the object through a distance.
25. What is the [equation](#) used to find the speed of an object?
26. What is [velocity](#) and how is it different from speed?
27. How do you [calculate](#) velocity?
28. What is [acceleration](#)?

# Three Laws of Motion Quiz



1. Who was the scientist who gave us the Laws of Motion?

**Answer: Sir Isaac Newton**

2. How many Laws of Motion are there?

**Answer: three**

3. What is another name for the first law of motion?

**Answer: Law of Inertia**

4. Which law explains why we need to wear seat belts?

**Answer: First Law of Motion**

5. Which law says that force is equal to mass times acceleration ( $F=MA$ )?

**Answer: Second Law of Motion**

6. Which law says that heavier objects require more force than lighter objects to move or accelerate them?

**Answer: Second Law of Motion**

7. Which law explains how rockets are launched into space?

**Answer: Third Law of Motion**

8. Which law says that for every action there is an equal and opposite reaction?

**Answer: Third Law of Motion**

**Directions:** Visit this web site to help you find the answers to questions 1 through 8.

