

Instructions: Turn to pages 52 - 56 in your textbook. Read and answer the following questions.

1. (52) What is force? \_\_\_\_\_  
\_\_\_\_\_
2. (52) In what 2 ways can the motion of an object change when you exert a force on it? \_\_\_\_\_  
\_\_\_\_\_
3. (53) When is a net force zero? \_\_\_\_\_
4. (53) What are balanced forces? \_\_\_\_\_  
\_\_\_\_\_
5. (53) In what direction does a net force occur? \_\_\_\_\_  
\_\_\_\_\_
6. (53) When a net force exists, you know that the forces are \_\_\_\_\_
7. (Think) Two equally strong linebackers hitting each other are \_\_\_\_\_ forces.
8. (Think) Give an example of an unbalanced force: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
9. (54) What is inertia? \_\_\_\_\_  
\_\_\_\_\_
10. (54) The inertia of an object is related to its \_\_\_\_\_
11. (54) The greater the mass of an object, the \_\_\_\_\_ its inertia.
12. (54) Which has more inertia: a bowling ball, or a tennis ball? \_\_\_\_\_  
Why? \_\_\_\_\_
13. (55) Which part of Newton's 1<sup>st</sup> law has to do with wearing seat belts in cars? \_\_\_\_\_  
\_\_\_\_\_
14. (Think) Write out Newton's 1<sup>st</sup> Law: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## *Paragraph tips*

### Introduction sentence:

“Car-safety experts say that \_\_\_\_\_  
would be \_\_\_\_\_ if they wore their \_\_\_\_\_.” (from your reading p. 56)

### **Words to use: velocity, acceleration, inertia, force, strong, seat belts**

In a crash, the \_\_\_\_\_ of a car changes very quickly, resulting in \_\_\_\_\_ .  
Because of \_\_\_\_\_, everything in the car that isn't tied down or in a seat  
belt keeps going as fast as the car was going before it crashed. This is because moving objects  
obey Newton's \_\_\_\_\_ .  
Car crashes create tremendous \_\_\_\_\_ which can severely injure or kill people.  
Seat belts stop \_\_\_\_\_ from injuring people by holding them in their seats. The  
more \_\_\_\_\_ a car has when it crashes, the greater the \_\_\_\_\_ is! As a result,  
seat belts have to be very \_\_\_\_\_ .

### Conclusion sentence:

“For lots of good reasons, people in cars should always wear their \_\_\_\_\_!”