**Study Guide Quarter One Test**

1. List the six types of simple machines, define them, and give example of each.
   1. \_
   2. \_
   3. \_
   4. \_
   5. \_
   6. \_
2. Machines make work easier by either

b.

3. What is a simple machine?

4. What is the advantage of a simple machine?

5. What is a compound machine?

6. What is kinetic energy?

7. What is potential energy?

8. What is mechanical energy?

9. Define inertia.

10. Explain the main idea of Newton’s first law.

11. Explain the main idea of Newton’s Second Law.

12. Explain the main idea of Newton’s Third Law.

13. Define Friction.

14. Define Force.

15. Define gravity.

16. Define magnetic forces.

17. Explain why you need a larger force to start something moving that you do to keep it moving.

18. What factors influence frictional force? Give two examples.

19. If a hollow plastic ball and a solid metal ball are dropped from the same height in a vacuum with no air resistance, gravity is the only fore acting on the balls. What do you predict will happen?

20. Which activity did you enjoy most during 1st quarter? Which activity did you learn the most first quarter?