**Six week assessment #3 study guide**

\*\*\*study previous notes and study guides from these units\*\*\*

1.Be able to read and answer questions about distance time graph.

2. Know what a mean on a distance-time graph

3.Know the definitions for the following words;acceleration,motion,reference point,velocity,relative motion,force,friction

4. Be able to calculate speed, time, and distance. Know the formulas S=Distance/Time, D=Speed x Time, T=Distance/ Speed

5.What do you need to know to specify the position of an object?

6.Be able to calculate force. Force= Mass x Acceleration

7. Know and identify each of Newton’s three laws

8.Know that all objects accelerate towards earth at the same rate at 9.8 m/s if the only force acting on it is gravity

9. Identify the difference between balanced (no movement) and unbalanced (movement) forces.

10. Know the purpose and be able to identify each of each of the simple machines;inclined plane,wheel and axle,screw,1st,2nd,3rd class levers,pulley,and wedge.

11. What do you do to a lever to make work easier?

12,Know which machine could be considered a inclined plane.

13.Be able to identify where kinetic and potenital energy is at its highest and lowest in a pendulum and a roller coaster

14.Be able to identify examples of insulators and conductors

15. Identify what is needed to create a simple circuit?

16. Be able to explain what happens to remaining light bulbs in both an open and closed circuit if one light bulb is burnt out.

17.Be able to explain what prevents the flow of electrons in a circuit

18.Know the differences and similarities in a animal and a plant cells

19. Be able to identify examples of prokaryotic and eukaryotic cells

20.Know the parts to the cell theory

21.Be able to identify the order of organization of all living things