Six Week Assessment #4 Study Guide

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

1. Be able to read and answer questions about distance-time graphs.
2. Know how to read a distance/time graph
3. Know the definitions for the following words: motion, speed, and force,
4. Be able to calculate speed, time, and distance. Know the formulas: S= Distance/Time, Distance= Speed X Time, Time= Distance/Speed
5. Be able to calculate force: Force = Mass X Acceleration
6. Know and identify each of Newton’s 3 Laws
7. 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.
8. What do you do to a lever to make work easier?
9. Be able to identify where kinetic and potential energy is at its highest and lowest in a pendulum and a roller coaster.
10. Know types of clouds
11. What is the difference between a cold, warm and stationary front
12. How and where are hurricanes formed?
13. Know what happens to air temperature and elevation
14. What are the layers of the atmosphere and be able to list them in order
15. What are the global wind belts and which direction they flow?
16. Explain the jet stream
17. Know the difference between land and sea breezes
18. Relative humidity is 100% of saturated air
19. Know the differences and similarities in animal and plant cells.
20. Be able to identify example of prokaryotic and eukaryotic cells.
21. Know the parts of the cells and their functions (ex- ribosomes create protein)
22. Be able to identify the order of organization of all living things.
23. Know the 4 protists and how they eat, reproduce and move
24. List the steps of the Mitosis cell cycle in correct order
25. Identify each step of the Mitosis cell cycle and list what occurs in each phase
26. After Mitosis, how many chromosomes are in the daughter cells and how much cytoplasm?
27. Mitosis produces how many daughter cells?
28. What is a chromatid?
29. Know the difference between a genotype and phenotype
30. Know what Homozygous Dominant, Homozygous Recessive and Heterozygous Dominant mean
31. Be able to create a punnett square and analyze information in a punnett square. Know the probability of the offspring
32. What are gamates? A female is XX and male XY
33. What is a pedigree? And be able to read and explain traits in a pedigree chart
34. In a pedigree, what are generations?
35. Know what inherited traits are

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