Name _____ Period_____ Date _____

Physical Science Test 2 - Review

1. Molly kicks a soccer ball three different times. Molly changes the force of her kick each time and uses a device to measure the force. The data she collected is shown in the table.

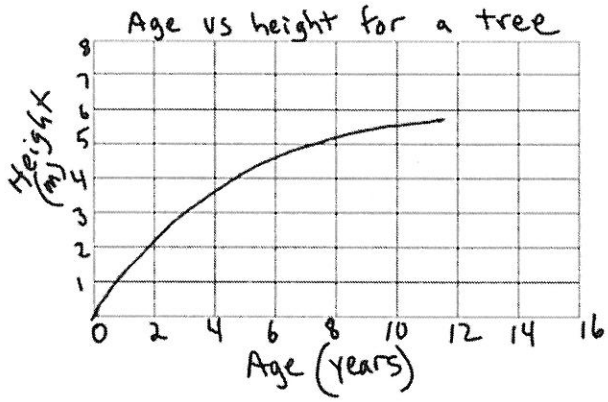
Force of Kick (N)	Distance Traveled (m)
150	31
200	39
270	47

a. Identify the independent variable _____

b. Identify the dependent variable _____

2. What will probably be the height of the tree when it is 15 years old? _____

3. What was the height of the tree at 3 years old? _____



4. What is it called when you predict something from a graph that is **outside** of the measured data set?

_____

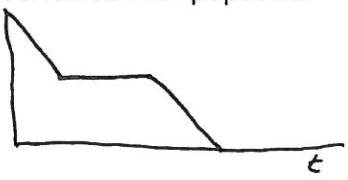
5. What is it called when you predict something from a graph that is **inside** of the measured data set?

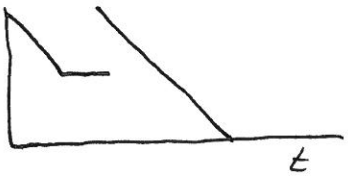
_____

6. Why is interpolation considered to be more reliable than extrapolation?

7. Describe the motion of the student that is walking the following graph, like we did in the hall.

In these two Popcorn graphs, describe what probably happened during the movie for each person that started with a full bowl of popcorn.

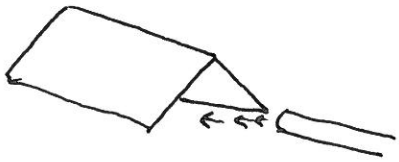
8. 

9. 

Note: Be able to draw a proper graph from a data table.
This would include a title, labels, units, data points, and curve fitting.

10. What is Bernoulli's Principle?

11. In the activity where we blow air into the tent made from an index card, exactly why did the tent collapse?



12. What are three Factors that affect friction?

a.

b.

c.

13. Describe Static Friction

14. Why is kinetic friction less than static friction?

15. How can friction be reduced? a._____ b. _____

c._____ d._____

16. What do Bearings actually do to reduce friction?

17. Name at least four types of Lubrication

18. What is the equation for acceleration, using velocity and time?

19. When dropping an egg, what effect does increasing Δt have on acceleration?