

Linear Motion Study Guide

Name _____

Period _____

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1. Define motion
 2. Speed is.....
 3. How do you calculate speed?
 4. Possible units for speed are....
 5. A speedometer measures what type of speed?
 6. How do you calculate distance from the speed equation?
 7. What type of graph represents speed?
 8. A single point on a speed graph represents what type of speed?
 9. Explain what is happening on a distance-time graph with different slopes.
 10. Give an example of velocity.
 11. Differentiate between speed and velocity.
 12. Define acceleration.
 13. Going around a curve at a constant rate, what is happening to your speed? Velocity? Acceleration?
 14. How do you calculate acceleration?
 15. Calculate time from the acceleration equation.
 16. When you cover a constant distance/second, the acceleration would be?

17. Objects fall at a constant acceleration of.....
18. Acceleration is represented in what type of graph?
19. Explain what is happening on a velocity-time graph with different slopes.
20. If acceleration is zero, velocity must be....
21. Air resistance does what to acceleration?
22. How many devices change acceleration in a car?
23. What is a balls speed and acceleration at the top of its trajectory?
24. Does weight or mass have an effect on acceleration due to gravity?
25. What happens to an object in each second of free fall?
26. The initial velocity thrown up would equal what final velocity when caught?
27. How do you calculate the velocity of an object in free fall?
28. The distance an objects falls is equal to the square of the
29. A large rock is dropped from a bridge into the river below. The time required for it to drop is 1.7 seconds.
 - a.) What is the height of the bridge above the water?
 - b.) At what velocity did it hit the water?