CP—R	ATE TEST Review Guide	Name		Per
Please and the ac	s: You MUST complete ALL of this nswer all questions completely. If y celeration lab with me. If you choo leration lab with me.	you totally complete th	nis review guide, you	will be able to
- L - Y u - C - T	A. Complete the Rose-Prism.org Log into Rose-prisem.org Your student ID is your firstname.las use to log into your ThinkPad. Click on Reitz ICP on the left menu Take the CFA Rate/Acceleration pra Take the Rate/Acceleration Review	stname1 and your pa bar actice quiz	assword is your ID nu	umber that you
	<b>B. Reviewing Notes</b> 11.1 Distance and Displacement (p	pages 328 – 331)		
	Imagine that you are a passenger you could use to determine how fa a. the people sitting next to you b. a van traveling in the lane of the c. a signpost on the side of the	ist the car is moving re ou in the backseat. next to your car.		
2.	Circle the letter of the SI unit best a. kilometers b. meters c. centimeters	suited for measuring t	the length of a room i	n your home.
3.	What would your total displaceme and then stopped when you reach correct answer.  a. one block b. zero c. the entire distance of your total	ned your front door aga		
4.	A vector is a quantity that has both best answer(s)	h	and	Circle the

5. Circle the letter of each answer that could describe the magnitude of a vector.a. lengthb. directionc. amount

a. direction

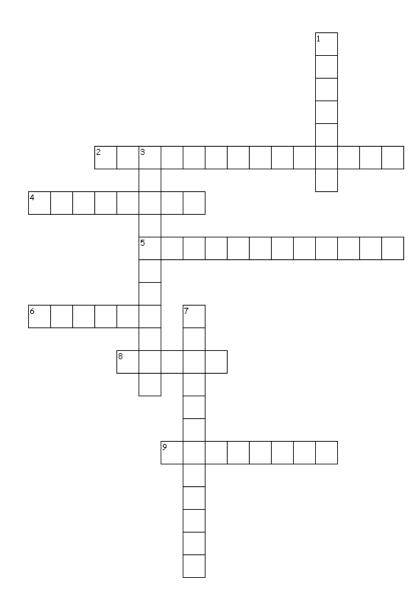
b. speed

c. magnitude

Chapt	6. (	<ul> <li>1.2. Speed and Velocity (pages 332 – 337)</li> <li>Circle the letter of each sentence that is true for either instantaneous speed or average speed, but NOT both. <ul> <li>a. It is measure in meters per second.</li> <li>b. It is measure at a particular instance.</li> <li>c. It is computed for an entire trip.</li> </ul> </li> </ul>
	7.	Is the following sentence true or false? You can determine how fast you were going at the midpoint of a trip by calculating average speed for the entire trip. Circle the correct answer a. True b. False
		A student walked 2 km in 0.5 hours. Circle the letter of his average speed on the way to school.  a. 0.5 km/h  b. 1.5 km/h  c. 4.0 km/h
	9.	Circle the letter of each sentence that describes a change in velocity.  a. A moving object gains speed.  b. A moving object changes direction.  c. A moving object moves in a straight line at a constant speed.
	10.	<ul> <li>Is the following sentence true or false? If a car travels around a gentle curve on a highway at 60 km/h, the velocity does not change. Circle the correct answer.         <ul> <li>a. True</li> <li>b. False</li> </ul> </li> </ul>
Chapt		1.3 Acceleration (pages 342 – 348)  Circle the letter for each way an object can accelerate.  a. change in speed  b. change in velocity  c. change in direction
		Circle the letter of the correct answer. A horse on a carousel that is moving at a constant seed is accelerating because  a. its direction constantly changes b. its speed constantly changes c. its height constantly changes

13. Circle the letter of the equation used to calculate the acceleration of an object.
a. acceleration = change in velocity
b. acceleration = change in velocity/total time
c. acceleration = total time/change in velocity

## ► Part C. Vocabulary Review.



## **CLUES:**

Across

- 2. movement in relation to a frame of reference
- 4. measuring the length of the actual path between two points in space
- 5. (final velocity initial velocity) ÷ time
- 6. quantity that has both magnitude and direction
- 8. SI units are m/s
- 9. the speed and direction in which an object is moving

## Down

- natural phenomenon by which all things with mass are brought toward one another at 9.8 m/s/s
- 3. a speed-time graph in which data points form a straight line
- 7. the total distance traveled divided by the total time

Word Bank: NOT all word will be used! acceleration, arithmetical, average speed, distance, linear graph, gadgety, gravity, relative motion, speed, varier, vector, velocity

▶ Part D. Unit Review. On the lines below, indicate what type of unit is being shown. Use a D for distance, A for acceleration, S for speed, and T for time.

cm = \_\_\_\_

 $m/s^2 =$ 

m = \_\_\_\_

m/s/s =

min = \_\_\_\_\_

km/hr =

cm/s =

s = \_\_\_\_\_

m/s = \_\_\_\_\_

mph= \_\_\_\_\_

yards/second = \_\_\_\_\_

km/h/s = \_\_\_\_

## ► Part E. Story Problem Review. 35. Mr. Abdul Basit from Pakistan just set a new world record! He is the fastest texter using the Swype technology on a smartphone in the world. He managed to type 26 words in just 17.5 seconds which is now being recognized by Guinness World Records as the fastest attempted text on a mobile phone. Calculate Mr. Basit's texting speed. Don't forget your UNITS! 36. Every animal species has some kind of specialty that makes them unique. Some animals have power to run faster than super cars and some species are super slow in motion. Three toed sloths are the slowest animals in the world that are native to North America. Their maximum speed is 0.003 miles per hours. How far will a three-toed sloth move in five hours? Don't forget your UNITS! 37. A student is sprinting down the hallway because she is super late to class at a rate of 3.2 m/s. She trips and skids for 6.4 meters. How long was she skidding on her face until she came to a screeching halt? DON'T forget your UNITS!

ALL of these problems MUST be completed for you to do lab with me on Thursday! I will be back on Thursday. You are having a TEST on Monday!