Name			
Skills Worksheet			
Directed Reading	A	Tartbook or	lo Math Box 19120 Show all work
		Alen: 0	La Math Box
Section: Measuring Moti	ion	7130	P9 120 11 1
1. Name something in motion that	at you cannot see m	noving.	Show all work
		THE INC.	S.
OBSERVING MOTION BY USING	A REFERENCE PO	INT	
2. An object in motion is			
a. stay in place.		intain constant velo intain constant acc	
b. keep moving.			
3. When an object change point, the object is	es position over tim	ne relative to a refe	rence
a. speeding.	c. dec	elerating.	
b. accelerating.	d. mo	ving.	
4. For determining motion, the s	ourface of Earth is a	ı	
common			
5. Why are buildings, trees, and i	mountains all usefu	ıl reference points?	?
6. Can a moving object be used a	as a reference poin	t? Explain.	
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SPEED DEPENDS ON DISTANCE	AND TIME		
7. The speed of an object dependent	nds on the distance	traveled and the	
tal	ken to travel that di	istance.	
8. The SI unit for speed is		 ,	
A 317	verage speed?		
9. Why is it useful to calculate a	werage speed.		

Nar	ne Date
D	irected Reading A continued
10.	Explain how to calculate average speed.
11.	When a person drives for several hours, how does the distance traveled in one hour usually compare with the distance traveled in other hours? Explain.
12.	Suppose that, on a graph showing speed, there are two lines. One line represents speed per hour, and the other line represents average speed. Will both lines be exactly alike and in the same place on the graph? Explain.
/E	LOCITY: DIRECTION MATTERS
	 a. A motorcyclist driving down a straight street applies the brakes. b. While maintaining the same speed and direction, an experimental car switches from gasoline to electric power. c. A baseball player running from first base to second base at 10 m/s comes to a stop in 1.5 seconds.
4.	d. A bus traveling at a constant speed turns a corner. Why don't birds end up at the same destination if they are flying exactly the same speed at all times?
15.	What is the difference between velocity and speed?

Nan	te Date					
D	irected Reading A continued					
16.	To find the resultant velocity, add velocities that are in the					
	direction(s). Subtract velocities that are					
	in the direction(s).					
AC	CELERATION					
	If your speed is not changing but your direction is changing, are you accelerating? Explain your answer.					
18.	Another name for acceleration in which velocity increases is					
	acceleration.					
19.	9. Negative acceleration is also called					
	20. Write the mathematical formula for calculating average acceleration.					
21.	A speedometer shows that a cyclist is going 1 m/s the 1 st second, 2 m/s the 2 nd second, and 3 m/s the 3 rd second, as the cyclist continues straight south. How do you know the cyclist is accelerating?					
						
22.	How can you recognize acceleration on a graph?					

Name	Class	Date
Directed Reading A continued		
23. A graph shows a roller coaster onds as it goes down the hill. ing a roller coaster traveling of	Will the graph hav	e an upward slope represent-
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	11	
	11	
24. As long as something travels your answer.	in a circle, is it alw	ays accelerating? Explain
	2)	
3		
3		