## <u>Chapter 12: Matter in Motion – Toolkit 1: Page 336</u> <u>Section 1: Measuring Motion</u> <u>Vocabulary words:</u>

Motion		3 2 1 26
Motion		
_ = ×Ē		
	_	
Average		
speed	,	MATERIAL DESCRIPTION OF THE STATE OF THE STA
4 11 5		
77 1 '		
Velocity	BOOLEAN CONTRACTOR OF THE CONT	
	× 4	
Acceleration		
Sec. 3		
- 3		
What is a reference point?		
Examples of standard		- A
reference points.		
What are the four		
reference directions on a		And the state of t
graph?		
What is the difference		
between speed and		
average speed?		
Units for speed:		
How can speed be shown		Speed can be shown on a graph ofversus
on a graph?		On a graph of position vs time, the slope of the line is
on a graph:		equal to the
0.97		equal to the
What is the d	ifforonce	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
between speed and		
velocity?		
Units for velocity:		
What is positive		
acceleration?		
What is negative		
acceleration?		
Units for acceleration:		
What is centr		
accoloration	)	199

What does negative acceleration look like on a graph of speed versus time?			
Review Questions: Textbook Page 343.			
2. Give 3 examples of acceleration.  Be sure that each example  describes a different kind of	1 Velocity   change   2 Velocity change		
change in velocity.	3Velocity		
3. Describe the position of an object in the room by using a standard reference point and a set of reference directions.			
4. What 2 things must you specify when describing the velocity of an object?			
5. What two things must you know to determine average speed?			
6. Explain how the average speed of an object moving along a path can differ from the speed of the object at a certain point on that path.			
7. How does a graph showing speed differ from a graph showing acceleration?			
8. Can you use this data to figure out what your fastest speed was during your bike ride? Explain.			
9. Interpreting graphics: A person walked from her home to the store. Use a reference point and reference directions to describe how the person moved.			
10. Find the average speed of a person who swims 105 m in 70 s.	the fellowing date		
11. A wolf is chasing a rabbit. Use the following data to graph the wolf's motion: 15m/s at 0s, 10m/s at 1s, 5m/s at 2s, 2.5m/s at 3s, 1m/s at 4s and 0m/s at 5s. Interpret the graph to describe the wolf's motion.			