CHAPTER 2 LINEAR MOTION

Chapter 2-Speed		
Motion:		
Where do we see motion?		
Rate:		
Linear Motion		
Relativity: Motion is relative. Define:		
Oo things at rest move?		
This is relative to your own perspective		
• Examples:		
Speed:	w	
Definition:	· · · · · · · · · · · · · · · · · · ·	
Speed uses the variable, v . Formula:	v =	
Units:		
1. Instantaneous Speed:	2. Average Speed:	
Speedometers	 KCMO to St. Louis is 220 miles. Mapquest figures the travel time is 3.5 hours. What is 	
• Specdometers	figures the travel time is 3.5 hours. What is	

Practice Practice:

The speedometer in every car has an odometer that records the distance traveled. If the odometer in your car reads ZERO at the beginning of a trip and 80 miles, 2 hours later, what is your average speed?

Veloc	•			
Define •	Not the same	e as speed erent?		
	ice Practice P			
The sp 60 km		a car moving No	orth read 60 km/h. It passes another car that is moving S	outh at
1.	Do both cars	have the same s	epeed?elocity?	
	Constant Ve	-	Changing Velocity:	
	Basically, you	1		
Practi	ce Practice Pi	ractice!		
What a	are the three c	ontrols used in c	changing the velocity of a car?	
-				
Accele	eration:			
Define	:	-12-5-5	*	
When	driving, it's the	e "pick up"; the "	against the seat" feeling.	
Formu	ıla:	a =		

Practice Practice!

A car goes from 0 to 60 km/h in 5 seconds. What is the car's acceleration?

Define	e:	
Referi	red to as	<u>-8</u> 8
	Slamming on the brakes Moving in a circle:	
Pract	tice Practice Practice	
	ose a car is moving in a straight line steadily in n/h, then from 40-45 km/h, then from 45-50 k	-