

## CHAPTER 8 CHECKLIST

<b>8.1 The Language of Motion</b>		
	Activity	Date
	CREATE a title page in your journal for chapter 7. Be sure to include the whole title of the chapter. Make the title page colourful and relevant to the chapter topic.	
	In your journal write out the definition to each of the following terms: <ul style="list-style-type: none"> <li style="width: 33%;">• Average velocity</li> <li style="width: 33%;">• Position-time graph</li> <li style="width: 33%;">• Uniform motion</li> <li style="width: 33%;">• Displacement</li> <li style="width: 33%;">• scalars</li> <li style="width: 33%;">• Vectors</li> <li style="width: 33%;">• Distance</li> <li style="width: 33%;">• Slope</li> <li style="width: 33%;">• velocity</li> <li style="width: 33%;">• Position</li> <li style="width: 33%;">• Speed</li> </ul>	
	READ textbook pages 344-354	
	COMPLETE the 'Distance and Displacement' activity on page 352 of your textbook. Use 'Distance and Displacement' handout to complete in this assignment.	
	COMPLETE the 'Graphing Motion Data' activity on page 352 of your textbook	
	COMPLETE the 'Motion True or False' handout	
	GO TO READ 'Roller Coaster Physics' online ANSWER THIS QUESTION 'What's the role of energy in making a roller coaster move?'	
	GO TO the web page link for the 'Roller Coaster Game' It is your mission to become a roller coaster designer so that you can achieve maximum thrills and chills without crashing or flying off the track (unless that's how you like your coaster to work!). If you accept this mission you must decide on a number of factors. You are responsible for setting the controls for the height of hill #1, hill #2, the size of the loop, the initial speed of the coaster, its mass, the gravity at work and the amount of friction on the track. PLAY with the rollercoaster simulator. Once your rollercoaster completes the track take a screenshot of your settings. Print off the screen shot and glue it into your journal. In your journal describe what happened to the roller coaster when you changed each of the settings: initial hill height, second hill height, size of loop, mass or cart, speed of cart, gravity and friction. Also answer this question 'is there more than one way to have the roller coaster successfully complete the track?'	
	For more rollercoaster building fun GO TO <a href="http://discoverykids.com/games/build-a-coaster/">http://discoverykids.com/games/build-a-coaster/</a>	
<b>8.2 Average Velocity</b>		
	READ textbook pages 362-369	
	COMPLETE 'Slope and the Position-Time Graph' activity on page 367 of your textbook. Use the 'Slope and the Position-Time Graph' handout to complete this assignment.	
	COMPLETE 'Average Velocity Review' handout	
	COMPLETE 'Problem set: Velocity' handout	
	COMPLETE 'Plot a Position-Time Graph' handout	
	COMPLETE 'Problem set: Speed' handout	
	STUDY for chapter 8 test GO TO the website and select the practice tests.	
	WRITE chapter test OR complete a chapter project	