

Name_	Chapters 15 and 16
concepts:	What are the two postulates of the Theory of Special Relativity? Postulate #1:
	Postulate #2:
2)	What are four implications of the Theory of Special Relativity? Implication #1:
	Implication #2:
	Implication #3:
	Implication #4:
3)	Name two things that have been created due to the Theory of Special Relativity?
4)	What is time or more accurately - what is space – time continuum?
5)	What happens to a ball that is thrown very fast? (give three things)
6)	What happens when a car traveling near the speed of light turns on its headlights?
7)	According to the Theory of Special Relativity can we travel backwards in time? Why or why not.

	What are the two postulates of the theory of general relativity? Postulate #1
	Postulate #2
9)	Why did Einstein have to have the first postulate?
10)	What is gravity?
11)	What is a black hole?
12)	What is a worm hole?
Exercises:	Find the time dilation effect if you are traveling at 100,000,000 m/s?
14)	Find the change in length of a 4 meter bar traveling at the same speed as problem 13?