## THE MECHANICAL UNIVERSE Video 43 - Velocity and Time

Name:	
Class:	

<ol> <li>What experiment was really th</li> </ol>	ne starting point of	f relativity	٧?
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- 2. In what year did Einstein develop the Theory of Relativity?
- 3. What does the parameter "gamma" ( $\gamma$ ) mean in relativity?
- 4. What is the basic premise of relativity?
- 5. Nothing travels faster than what value?
- 6. When speeds are added relativistically, their sum is always less than what value?
- 7. Explain how the  $\mu$  meson illustrates relativity:
- 8. Explain why there can be no absolute state of rest in the universe: