

THE MECHANICAL UNIVERSE
Video 42 - The Lorentz Transformation

Name: _____
Class: _____

1. What were the speediest vehicles in the time of Lorentz?
2. What was Fitzgerald's explanation for the outcome of the Michelson-Morley experiment?
3. What is special about the way observers measure the speed of light?
4. What basic principle was at the heart of Galileo's law of inertia?
5. What does the Greek letter γ mean in relativity?
6. Does time speed up or slow down in a moving reference frame?
7. What are Einstein's two fundamental postulates for his theory of relativity?
8. What is a space-time diagram useful for visualizing?
9. Who was perhaps the last great classical physicist?