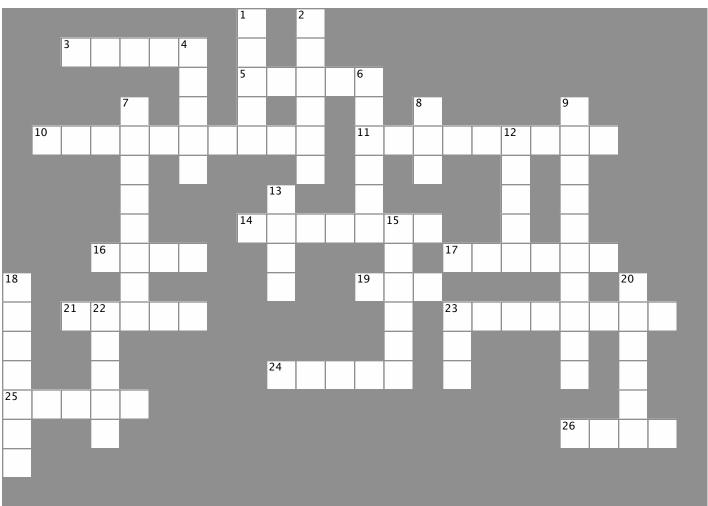
Quiz I: Not what you were expecting

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Across

- 3. Only one thing can go the cosmic speed limit.
- 5. The correct unit for distance.
- 10. When you do this, your motion is not covered by special relativity.
- II. Absolute timing is out the window, but this is preserved
- 14. Time intervals for moving observers, compared to those at rest
- 16. The correct unit for mass.
- 17. You seem thinner, but only along your direction of
- 19. The correct unit for time.
- 21. Even in relativity, kinetic energy depends on this. Its just more complicated
- 23. You are here.
- 24. There are this many of you, roughly (multiple of ten).
- 25. You have this many lab TAs.
- 26. The units of gamma

Down

- I. This is both the time dilation and length contraction factor
- 2. Convertible into energy
- 4. This many observers, and we need the velocity addition formula
- 6. Featured prominently in many relativity examples
- 7. All motion is
- 8. Earth revolves around it
- 9. This type of observer measures "proper" quantities
- 12. Its speed is our only invariant
- 13. The president of the university
- 15. Einstein's most famous equation relates mass to this
- 18. A spaceship is moving toward you at high speed. Compared to seeing the ship at rest, it is ...
- 20. This is the correct unit for tempurature
- 22. This week's lab
- 23. Relies on relativity for its fantastic accuracy