

# A SLOWER SPEED OF LIGHT

February 4, 2017

Math Explorer's Club  
Spring 2017

We've talked a little bit about the weirdness that happens when you travel near the speed of light, but we've barely scratched the surface.

To really experience the effects of relativity, you should go home this week and play A SLOWER SPEED OF LIGHT by the MIT Game lab. The game is free, and it's available at the following URL:

<http://gamelab.mit.edu/games/a-slower-speed-of-light/>

While you play the game, think about the following questions.

- (1) How do colors change as you move? What if you move sideways?
- (2) How does the apparent size of objects change when you move towards them? What if you move away from them? What if you move sideways past them?
- (3) How does the apparent distance between you and an object change as you move towards it? What if you move away from it?
- (4) Do you notice any time dilation?