



## Exit Pass: Lesson 1

### Electricity

Complete the following.

#### Questions

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[https://phet.colorado.edu/sims/html/john-travoltage/latest/john-travoltage\\_en.html](https://phet.colorado.edu/sims/html/john-travoltage/latest/john-travoltage_en.html)

On the simulation called “John Travoltage”, move John Travoltage’s foot on the carpet. Move John Travoltage’s arm to touch the doorknob. You can see the path of electricity inside John Travoltage. When you have finished the simulation, answer the following questions.

1. When John Travoltage rubs his foot on the floor, what happens to the electrons on the surface of the floor?

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2. Where do the electrons flow in the John Travoltage Simulation and why?

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3. What are the three laws of electricity? Explain using the balloons, wall and wool sleeve in the balloon simulation.

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4. What is a conductor?

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5. What is a current?

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