

1. decrease so the flux decreases and sends an induced current through the wire

2a. into the page

b. the current produces an electric field. The current is coming from the battery

3. there is a force coming from the current in the rod which pushes the electron away

4a. current is going to the right

b.

5.

6. A brushed motor works by sending current through a coil of wire to make a solenoid. After an initial outside push, the solenoid gets repelled from a magnet and gain angular momentum. When the solenoid is as far away as it can get, the polarity flips and with the momentum, is now attracted to the magnet. The cycle repeats and an axle is turned

