

1. Why does the pith ball in between two oppositely charged plates give only a brief burst of electrons whereas a cell supplies a continuous flow of electrons?
2. Do you think that you could produce an electric current if you stuck a piece of copper and a piece of iron into a lemon? Why do you think this is/isn't possible?
3. Volta noted that in electrostatics, charges move momentarily and then quickly come to rest, but in an electric circuit using a voltaic cell, charges continue to move for a long time. Describe how you could test Volta's statement to see if it is correct? (Hint: Light bulb)
4. What are the main parts of any voltaic cell?
5. How does the voltaic pile demonstrate the main parts of the cell?
6. How do a galvanometer and an ammeter differ in what they measure?
7. Describe how the conditions in which Galvani saw frog legs twitch satisfied the requirements for a voltaic cell.