

**THE MECHANICAL UNIVERSE**  
**Video 32 - The Electric Battery**

**Name:** \_\_\_\_\_  
**Class:** \_\_\_\_\_

1. Can a lemon battery be used to run an electric motor? Why or why not?
2. The modern day version of a Lyden Jar is called what?
3. What is an ion?
4. What is special about the potential energy of an electron in a metal?
5. Define the “work function:”
6. On what animal did Galvani focus his studies of “animal electricity”?
7. Had the electron been discovered in Volta’s day?
8. Describe what happens when 2 oppositely charged metals are placed in an electrolyte solution?
9. What causes a battery to become “dead?”
10. What did Napoleon hail as the greatest invention of all time?
11. What are the basic components of an electric battery?
12. In what profession were all of Volta’s brothers?