**Induction**

In class today, Mr. Smith tazed us.

One person held one end of a wire, which was clipped to one end of the tazer. Another person held on to the end of another wire, which was attached to the other end of the tazer. He cranked it, and you could feel the electricity going through you, up one arm and down the other arm into the next person. It felt really weird(and it hurt)!

Things I learned:

* You need three things for induction:
  + A wire or a coil of wire.
  + A magnetic field.
  + Movement.
* A galvanometer is an instrument which can detect and measure very small amounts of electric current.
* Induction is the process where electric current is produced by moving wire in a magnetic field.
* The tazer used 35 volts(V).
* It used 1/1000000 of an amp.
* A wall socket has enough amps to kill everyone in Hampshire Regional without dimming the lights.
* Amp is short for ampere.
* It takes 40,000 volts to make an electric spark jump an inch.
* Most static electricity sparks go about a quarter inch, which means that they have a voltage of about 10,000.
* A wall socket has about 20 volts.
* The tazers that police use have very high voltage and very low ampage.

