## Electric Circuits

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Pan 1

## 11.1 Electric Current

Electric current measures the number of coulombs of charge that move through an area in a given time. The unit of electric current is the ampere, or coulombs per second.

$$I = \frac{Q}{\Delta t} = \frac{dq}{dt}$$

We can use the hydraulic analogy to make understanding electric currents a little easier.