· Water Analogies! 10/25/11 La Res: stance! · Buls brighesses in surespeciallel We originally gressel besidenty on our port the that A: B. E > 8. E because the Voltage vs these for ADIE At bulf for Bxc. Bx the we stuted ... thinking. And we got to thinking that the correct fla though B+ Evald he the same as A, therefore the Sand brightness, + D+E will here los werest for + less bightness, ow first gress resents Some Sight By E facthe I. 8+c hed less polital , dry across each this I. What we did not expect was the resistence of the bulls to change their sures. a: Why do the boths resistances

Water analogues! -Eres though there are 2 different spots of sponges! resistance, the vote entering must extend the wife leaving. The tates represent voltretts. Dutho this our reto in the Rist 2 fubes the Liftverais the same --Q: shoulen't the last tilbe have route? -I Lessel M the potential

2.950 And here's why! -1 -The filament of the said full a much theden they the long bills, courses much less resistance the the long buls. Since the wirest is the same for both the lerger leads takes now petatical to more the Sam around of elections through it at the same rate Weber Anders! wir snell buls | Alunt takes or the pass

Q: If we added now sower potential, and

In class observations

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If wires don't have negligible resistance, then the wires will heat up and potentially start a fire. Using bulbs that have larger resistances make the resistance of the wires to become more negligible.

Q: Why do the same bulbs in a series have less resistance than the same bulbs in parallel

Potential drop across each bulb in a series is the same. The more bulbs you add, the less the drop Potential drop across each bulb in a series is the same. The more bulbs you add, the less the drop in potential. The more bulbs that you add to a series circuit, each bulb will have less resistance. When the resistance of the bulbs is much less than the resistance of the wire, the parallel circuit is "abnormal." The distance of the bulb from the battery makes a difference on its brightness because of the resistance of the wire. The wire, since it has the most resistance, will heat up. Current is like water moving through a pipe. The water entering must equal the water leaving. Through the first pipe sponge is more water entering it than entering the second sponge, but there is also more water leaving the first sponge than the second sponge. What matters is the difference between water entering and leaving, the drop of potential. The difference between water entering a leaving each sponge is the same.