Model Evaluation Activity

Model In this model, what represents the following: Keywords: charge, same, series, not, 1. charge. a) current Current is the flow of _____ around b) battery _____ a circuit. The faster the _____ flows, c) wires _____ the higher the current. The current is the _____ everywhere in a _____ Use this model to describe electric current in circuit. Current is used up. a circuit. In this model, what represents the following: If the pipes became narrower, how would 2. gauge to measure difference in pressure this have an impact on the flow of water? a) current _____ Keywords: narrow. harder. current. b) battery _____ resistance. pool filter c) wires _____ It would be ______ for the (resistance to flow) d) bulb _____ water to travel around the system. turbine e) switch _____ A _____ pipe means f) voltmeter increased ; increased Use your model to explain how electricity resistance leads to a smaller flows through a circuit. pump





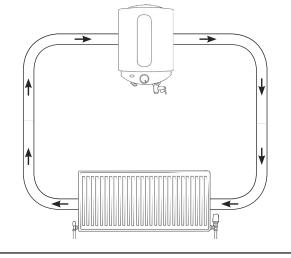
3. In the space provided, create your own model.	In this model, what represents the following:
	a) current
	b) battery
	c) wires
	d) bulb
	Use your model to explain how electricity flows through a circuit.



Model Evaluation Activity Answers

Model

1.



In this model, what represents the following:

- a) current flow of water
- b) battery pump and boiler
- c) wires **pipes**
- d) bulb radiator

Use this model to explain electric current in a circuit.

Current is the flow of charge around a circuit. The faster the charge flows, the higher the current. The current is the same everywhere in a series circuit. Current is not used up.

2. gauge to measure difference in pressure pool filter (resistance to flow) tap water

In this model, what represents the following:

- a) current flow of water
- b) battery **pump**
- c) wires pipes
- d) bulb turbine
- e) switch tap
- f) voltmeter pressure gauge

Use your model to explain how electricity flows through a circuit.

If the pipes became **narrower**, how would this have an impact on the flow of water?

Keywords: narrow, harder, current, resistance.

It would be **harder** for the water to travel around the system. A **narrow** pipe means increased **resistance**; increased resistance leads to a smaller **current**.

