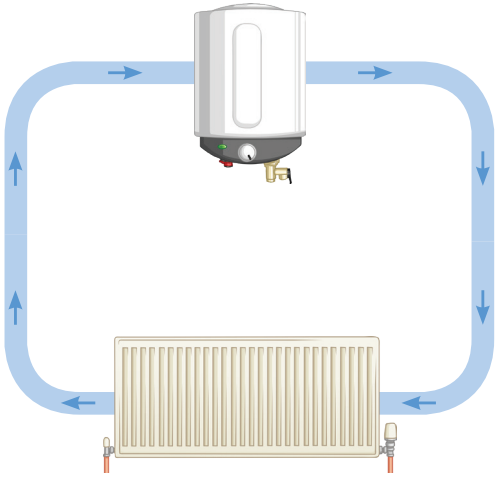
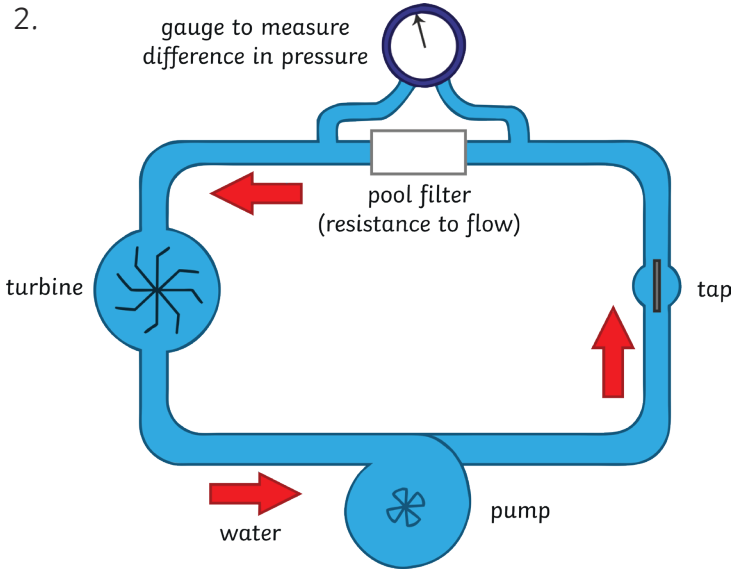
Model Evaluation Activity

Model		
1. 	In this model, what represents the following: a) current _____ b) battery _____ c) wires _____ d) bulb _____ Use this model to describe electric current in a circuit.	**Keywords: charge, same, series, not, charge.** Current is the flow of _____ around a circuit. The faster the _____ flows, the higher the current. The current is the _____ everywhere in a _____ circuit. Current is _____ used up.
2. 	In this model, what represents the following: a) current _____ b) battery _____ c) wires _____ d) bulb _____ e) switch _____ f) voltmeter _____ 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 _____ for the water to travel around the system. A _____ pipe means increased _____ ; increased resistance leads to a smaller _____.

3. In the space provided, create your own model.

In this model, what represents the following:

a) current _____

b) battery _____

c) wires _____

d) bulb _____

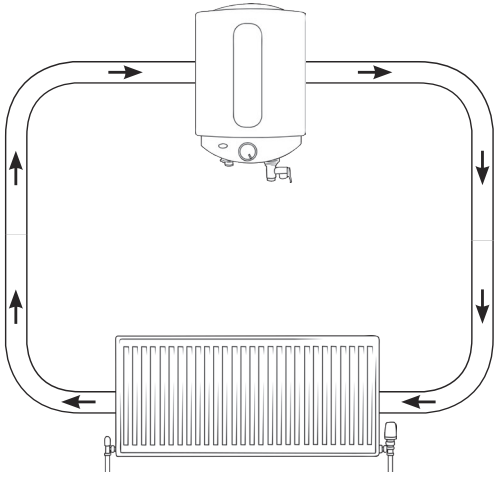
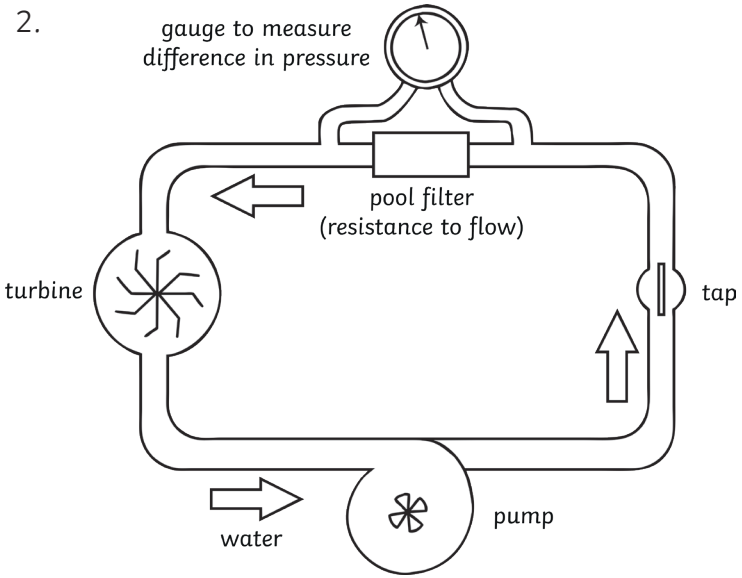
Use your model to explain how electricity flows through a circuit.

_____

_____

_____

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. 	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**.