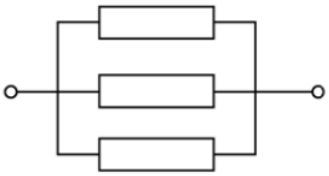
Adding Resistances

ATL(s) being taught and assessed:
Thinking - Critical - Use models and simulations to explore complex systems and issues (focus on electron movement)

The task:

Modelling the following situations explain why the resistance in (a) decreases when compared to a single resistor and in (b) Increases when compared to a single resistor. Assume the resistors are all identical.

(a) 

(b) 

You should model each situation in two ways, one of which must be as a wire.

Formative assessment criteria:

Not there yet	Meeting expectations	Beyond expectations
	- Correctly describe resistance in terms of a physical model - Correctly link these situations to the model of a wire - Any visual aids add to the explanation - Explanations are concise	