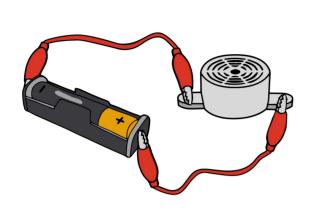
Knowledge catcher: Circuits, batteries and switches

Some pupils investigated how the number of cells affects the volume of a buzzer. They used a cell, some wires, a buzzer and a data logger to measures volume in decibels. The results table is below:



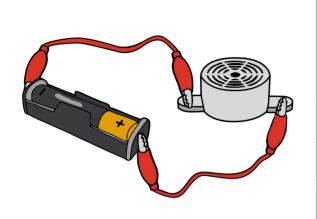
	Volume of buzzer (decibels)				
Number of cells	Test 1	Test 2	Test 3	Mean average	
1	70	71	72	71	
2	77	76	78		
3	84	81	85	83.3	

1	Draw a circuit diagram for the image shown above.	2	Draw another circuit diagram with a higher voltage.

3	Give one example of a control variable for this experiment.		
4	Work out the missing mean average in the results table and write it in.		

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5	Describe the relationship (link) observed using the results in the table.
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6	Describe another way to change the volume of the buzzer.
	
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7	What effect would adding a switch to the circuit have?
	
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