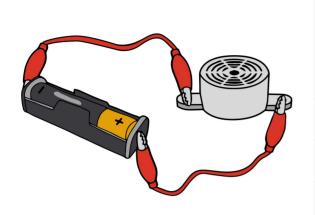
Knowledge catcher: Circuits, batteries and switches

Some pupils wanted to investigate how the number of cells affects the volume of a buzzer. They use a cell, some wires, a buzzer and a data logger that 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	

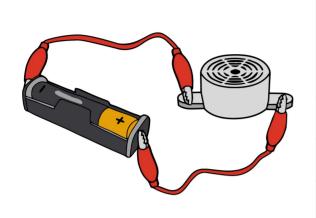
1	Draw a circuit diagram for the drawing shown above.	2	Draw another circuit diagram showing a greater voltage.

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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