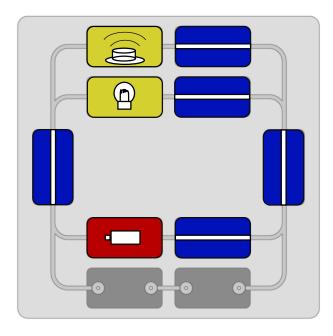
Electricity and Circuits

Activity 1: Changing voltage

Please place the modules as shown:

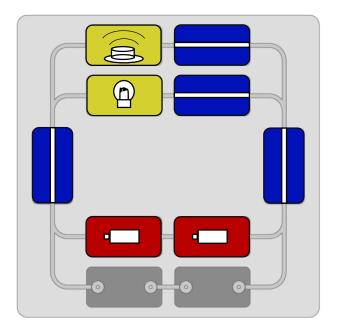


With one battery, what happens?

Th	ıe	b	ul	b	:
		\sim	\sim	\sim	

☐ Does not light up	☐ Lights up dimly	☐ Lights up brightly
The buzzer:		
☐ Does not sound	☐ Hums softly	☐ Buzzes loudly
Why does this happe	n?	

Now, replace the single battery with **two** batteries.



With **two** batteries, what happens?

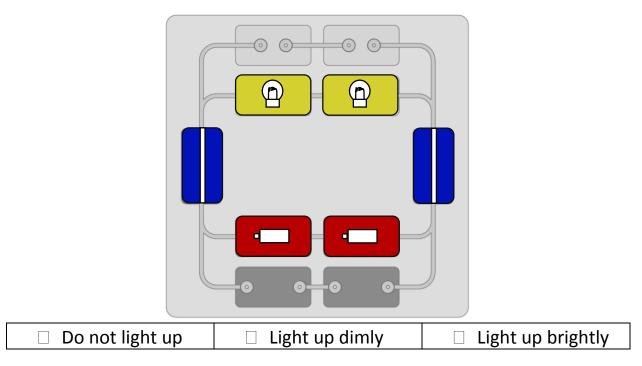
The bulb:

☐ Does not light up ☐ Lights up dim		☐ Lights up brightly
The buzzer:		
☐ Does not sound	☐ Hums softly	☐ Buzzes loudly

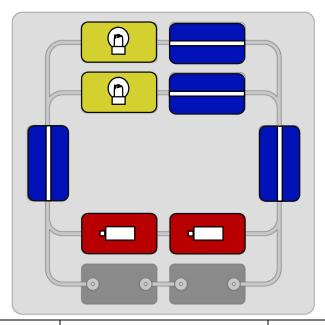
Activity 2: Series vs Parallel

Please place the modules as shown:

The bulbs in series:



The bulbs in **parallel**:

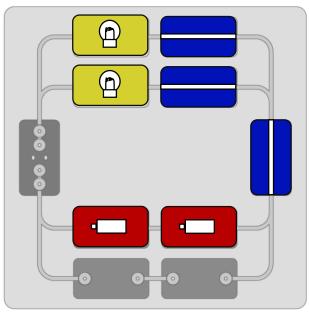


□ Do not light up	☐ Light up dimly	Light up brightly
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Why does this happen?		

Activity 3: Insulators and Conductors

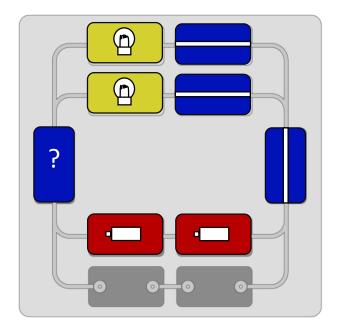
Please place the modules as shown:



Do the bulbs light up?

□ No	☐ Yes, but dimly	☐ Yes, brightly
Why does this happe	n?	
vviiy does tilis happe	11:	

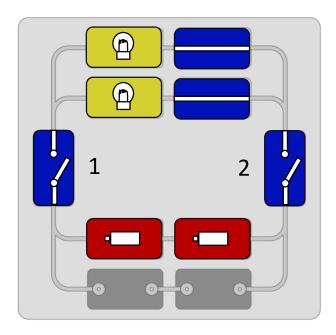
Now, try using different materials to complete the circuit



Material:		
Do the bulbs light up?		
□ No	☐ Yes, but dimly	☐ Yes, brightly
Material:		
Do the bulbs light up?		
□ No	☐ Yes, but dimly	☐ Yes, brightly

Activity 4: Switches

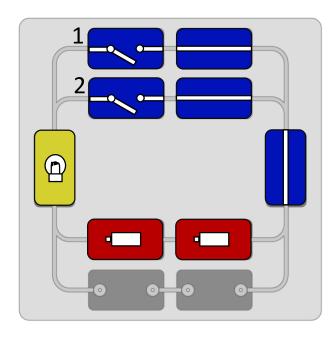
Please place the modules as shown:



Switch 1	Switch 2	Do the bulbs light up?	
Off	Off		☐ Yes
Off	On		☐ Yes
On	Off		☐ Yes
On	On		☐ Yes

Why does this happen?		

Now, please place the modules as shown:



Switch 1	Switch 2	Does the bulb light up?	
Off	Off		☐ Yes
Off	On		☐ Yes
On	Off		☐ Yes
On	On		☐ Yes

Why does this happen?		