## Make your own!

# Switches and building electrical circuits

Lesson 4: Worksheet 2



#### Series and parallel circuits

10	. Make a	ı circui	t with	three	light t	oulbs	in ser	ies, b <u>ı</u>	J conne	cting	them	one c	ıfter	anoth	ner a	s show	n in	the
	diagrar	n beloi	ມ. Dra	w the	circuil	t you	have	create	ed, using	g the	electr	ical s	ymb	ols to	fill in	n the go	ıps.	

Open switch				Light bulbs
		Two 1.5V cells		
1b. What happen	s to the light bulbs when y	ou close the swit	ch?	
1c. What happens	s if you unscrew one of the	e bulbs?		
1d. Can you say ı	υhy this happens?			

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#### Series and parallel circuits

2a. Connect the light bulbs by connecting them alongside one another as in the circuit diagram (a parallel circuit). Draw the circuit you have created, using the electrical symbols to fill in the gaps.

	Light bu	ılbs							
Open switch									
Two 1.5V cells									
2b. What happens to	the light bulbs when you close tl	he switch?							
2c. What happens if	you unscrew one of the bulbs?								
2d. Can you say why	y this happens?								
Ze. Which circuit wo	uld you use for the light bulbs in u	Jour house: a series or a paral	lel circuit? Why?						