

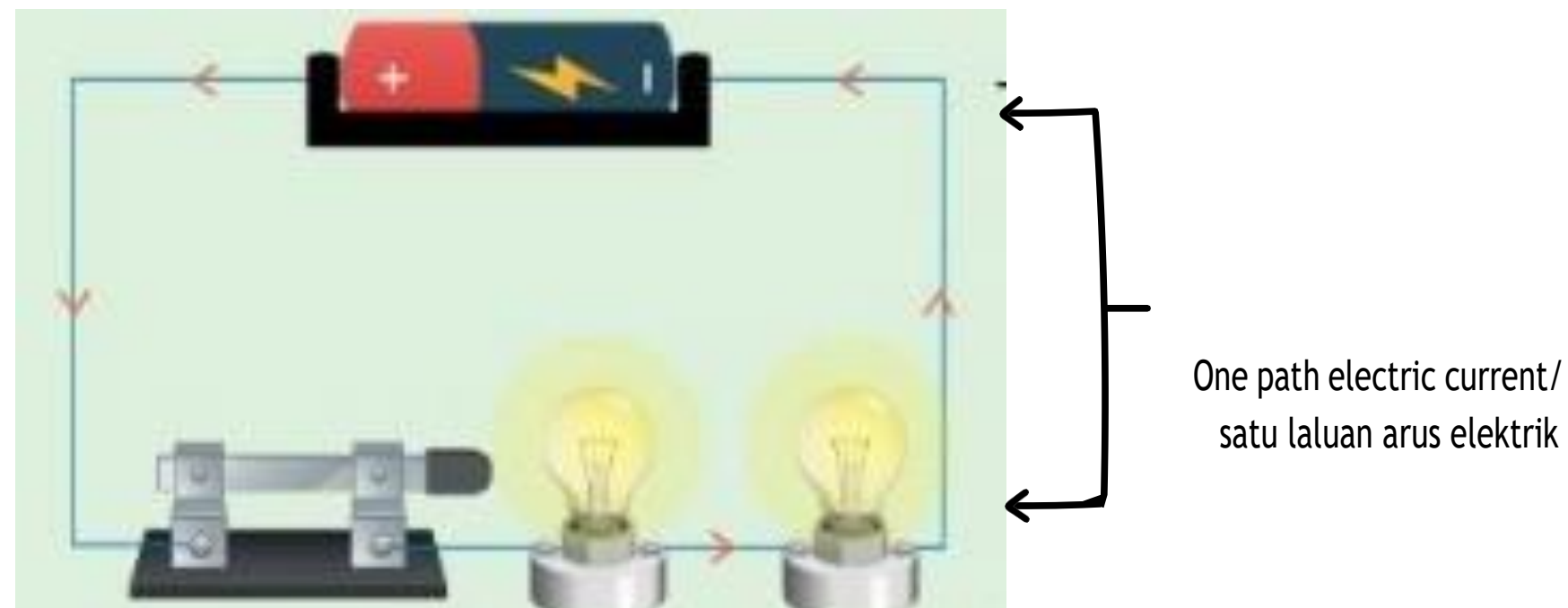
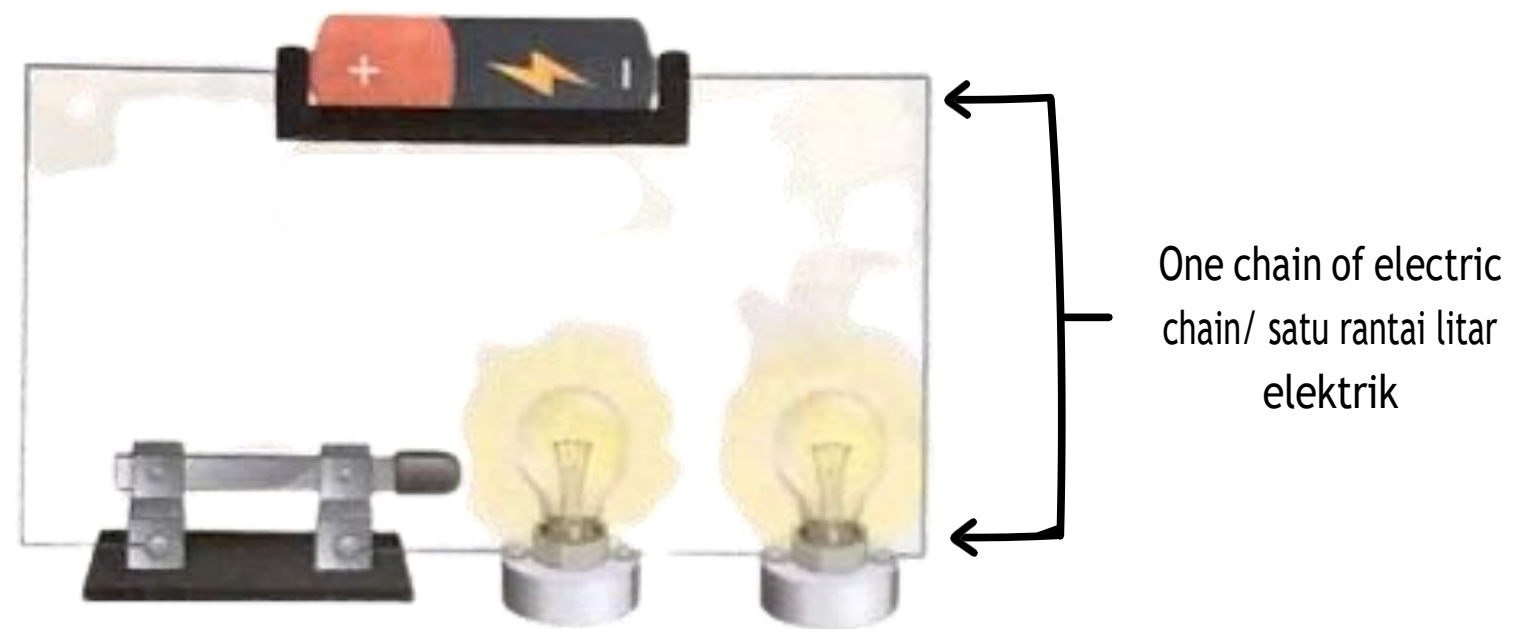
TAHUN 5

SAINS EXTRA

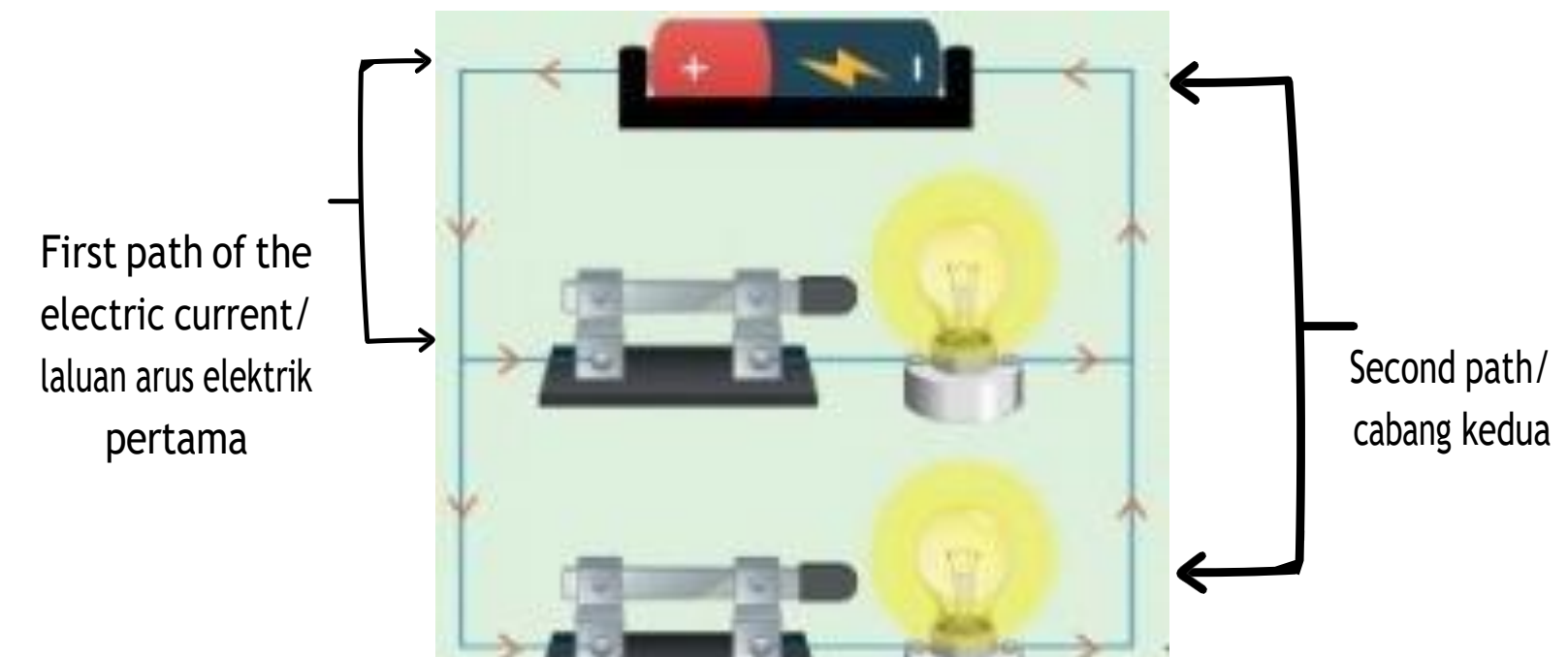
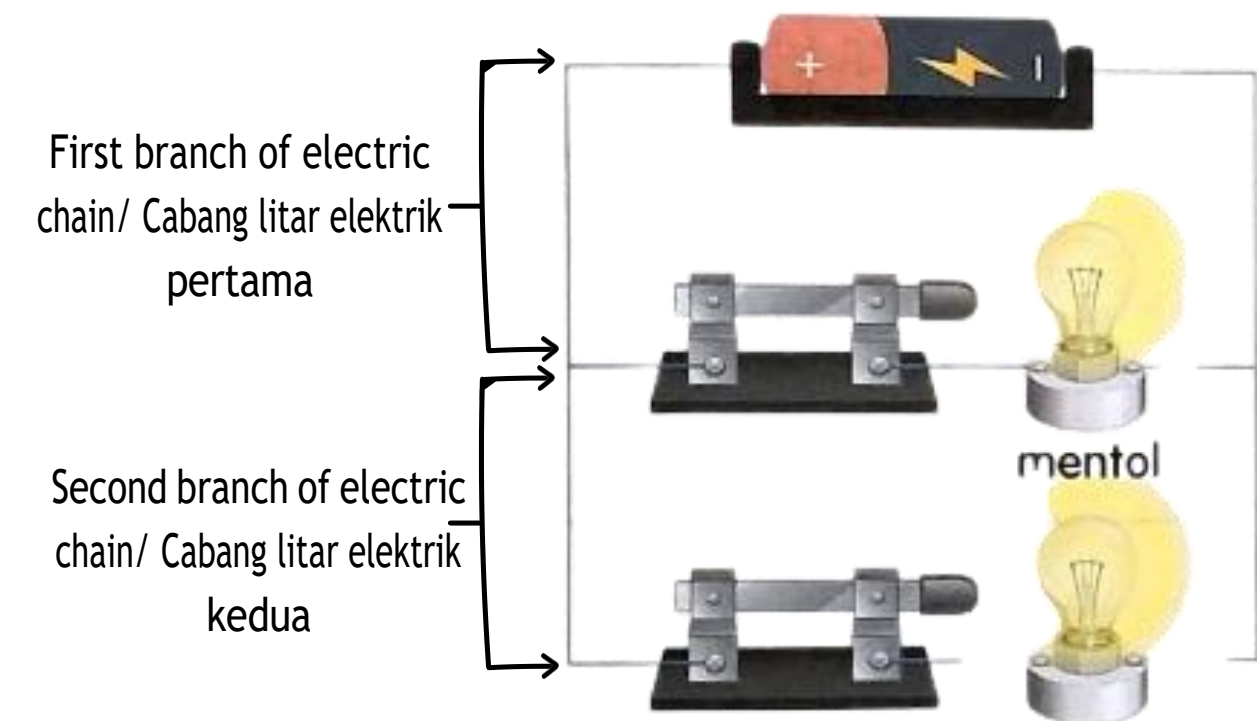
CIKGU AISYATUL

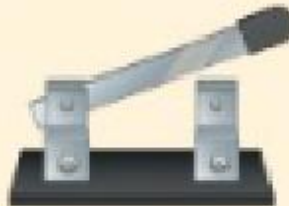
TAHUN 5		
BIL	TOPIK	REMARKS
1	KEMAHIRAN SAINTIFIK	
2	MANUSIA	
3	MIROORGANISMA	
4	INTERAKSI ANTARA HIDUPAN	
5	PEMULIHAN DAN PEMULIHARAAN	
6	DAYA	
7	KELAJUAN	
8	TEKNOLOGI PENGAWETAN MAKANAN	
9	BAHAN BUANGAN	
10	GERHANA	
11	GALAKSI	
12	KESTABILAN DAN KEKUATAN	
13	TEKNOLOGI	

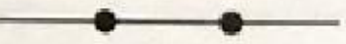
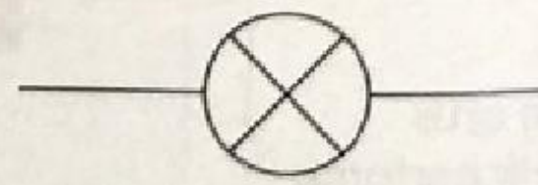
Series circuit/ Litar bersiri



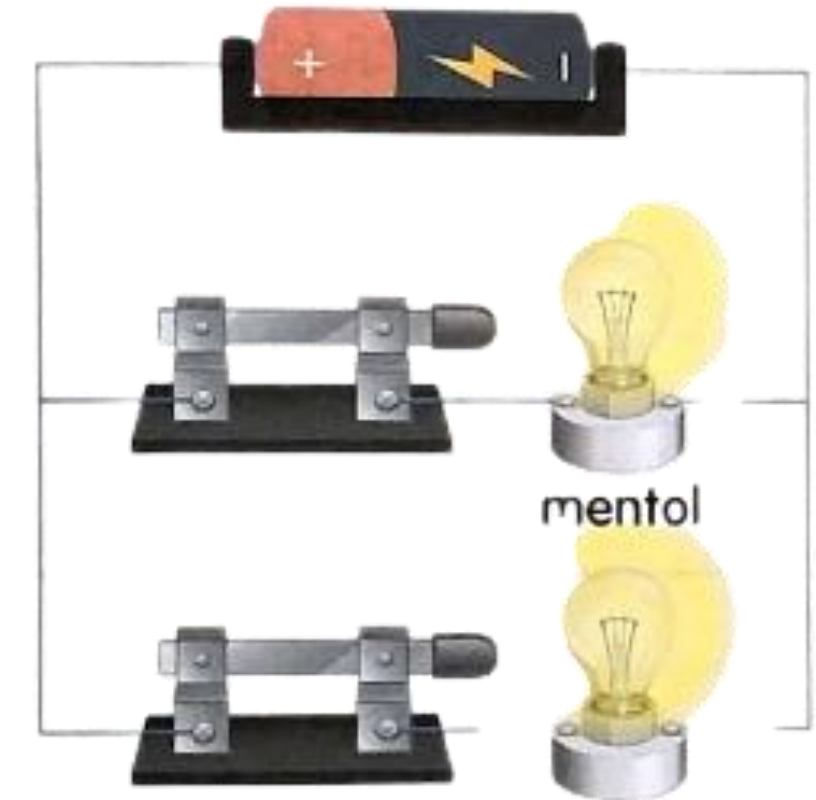
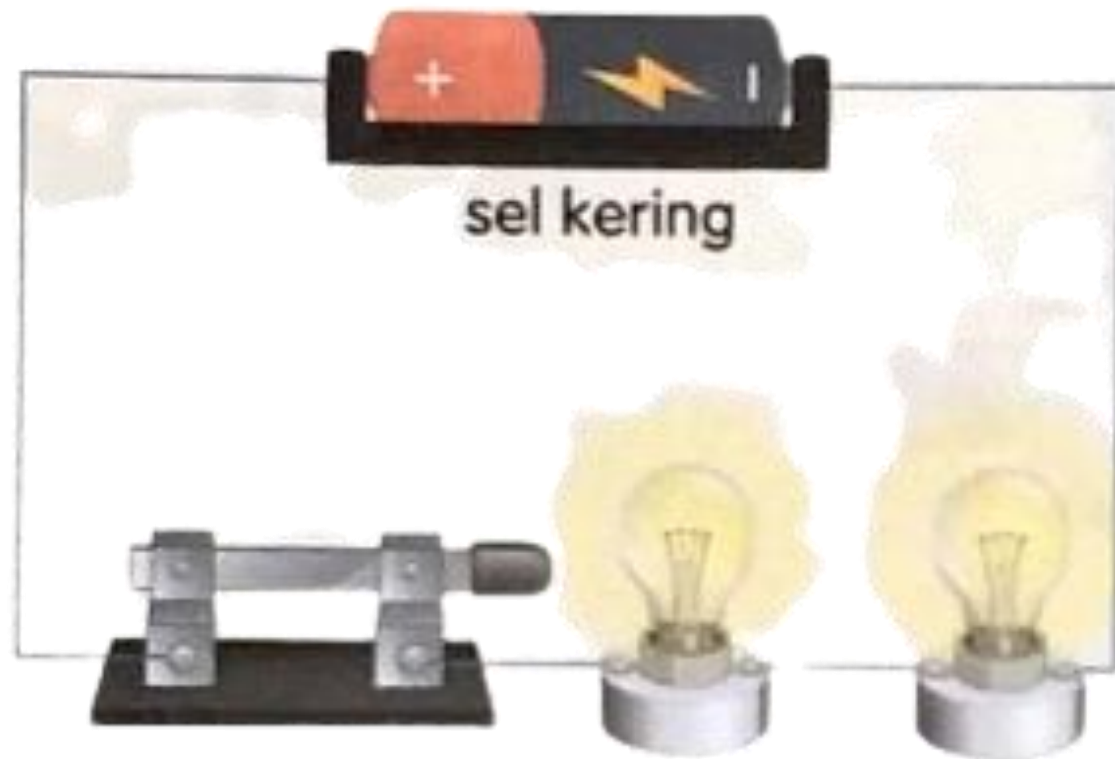
Parallel circuit/ Litar selari



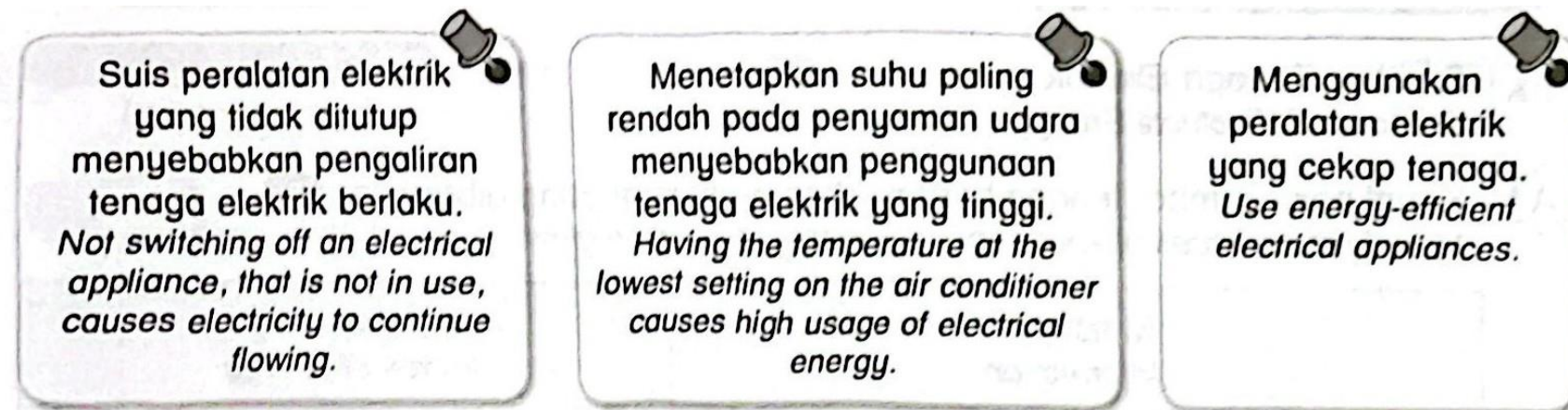
COMPONENT	SYMBOL
Dry cell  	 1 dry cell  2 dry cells
Switch  open switch closed switch	 open switch  closed switch
Bulb 	

KOMPONEN	SIMBOL
Sel kering  	 1 sel kering  2 sel kering
Suis  suis terbuka suis tertutup	 suis terbuka  suis tertutup
Mentol 	

The brightness of bulbs/Kecerahan mentol



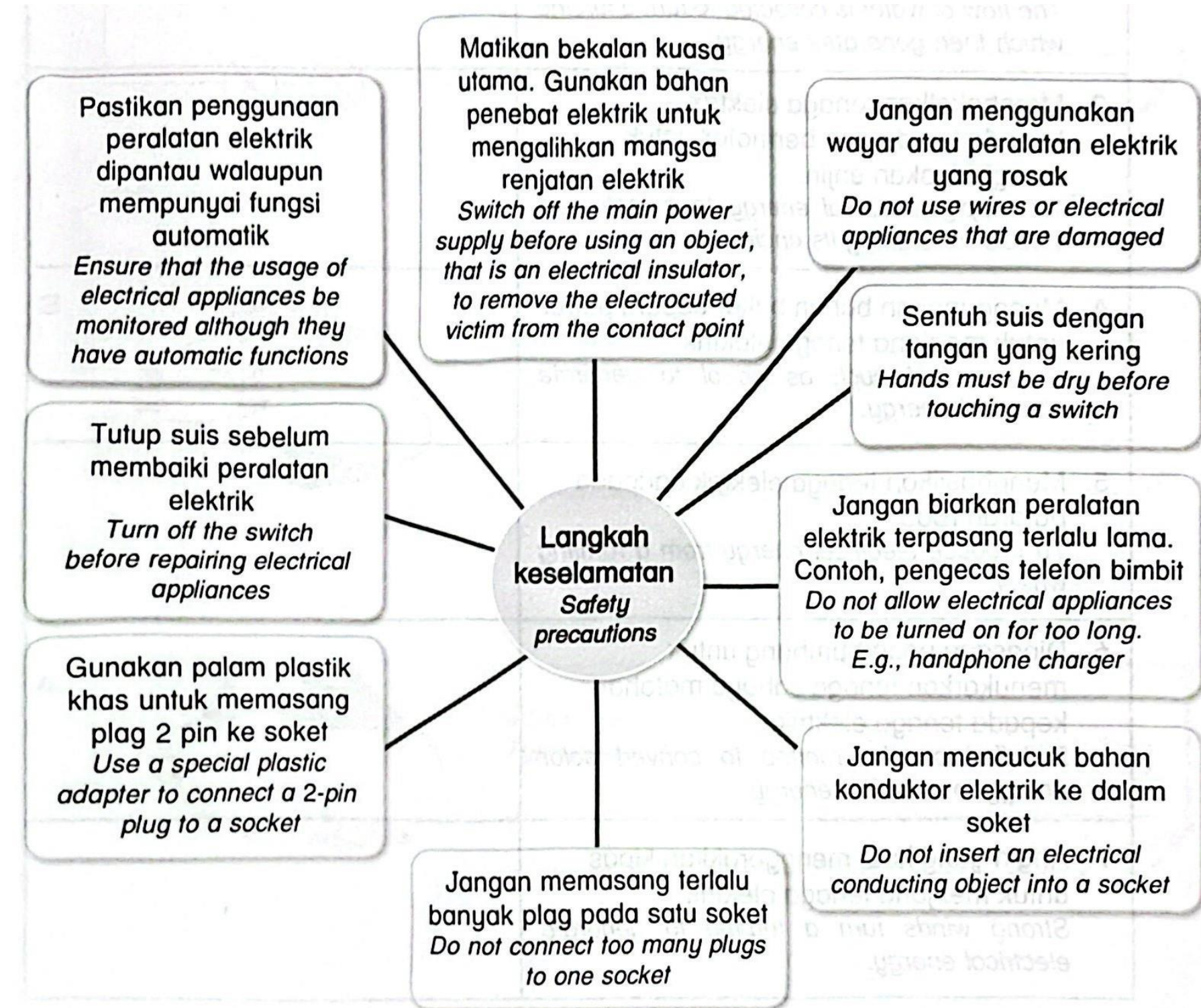
Faktor yang mempengaruhi penggunaan tenaga elektrik/ Factors that affecting the usage of electrical energy



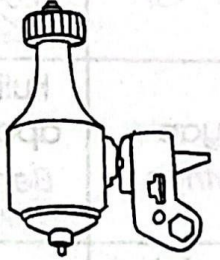
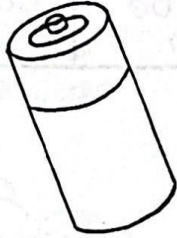
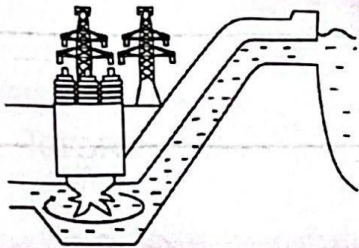
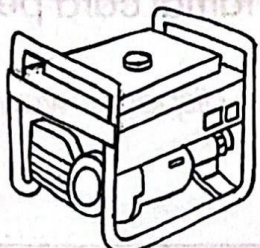
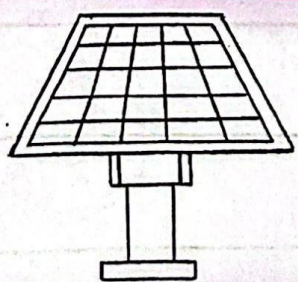
Kesan kecuaiian pengendalian peralatan elektrik/ Effects of mishandling electrical appliances

Kecuaian pengendalian peralatan elektrik boleh mendatangkan pelbagai kesan seperti kerosakan peralatan elektrik, terkena renjatan elektrik dan kebakaran.
The mishandling of electrical appliances can cause various dangers such as damaged electrical appliances, electric shock and fire.

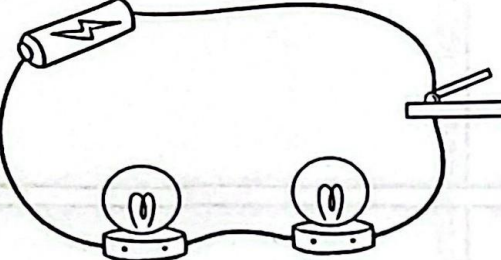
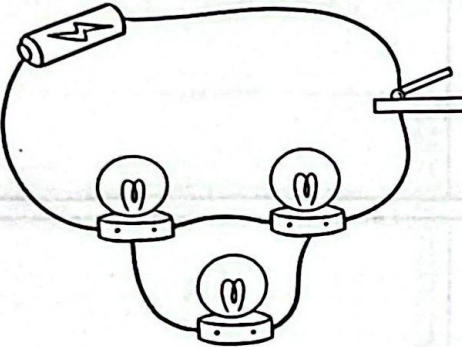
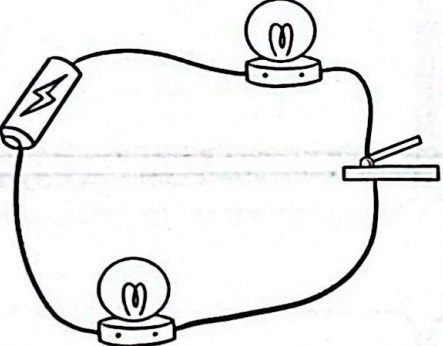
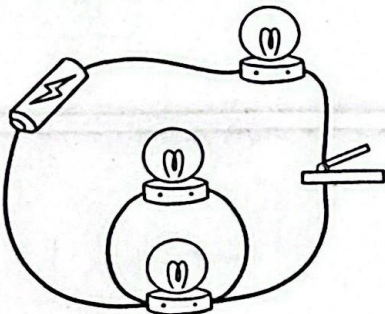
Langkah keselamatan ketika mengendalikan peralatan elektrik/ Safety precautions when handling electrical appliances



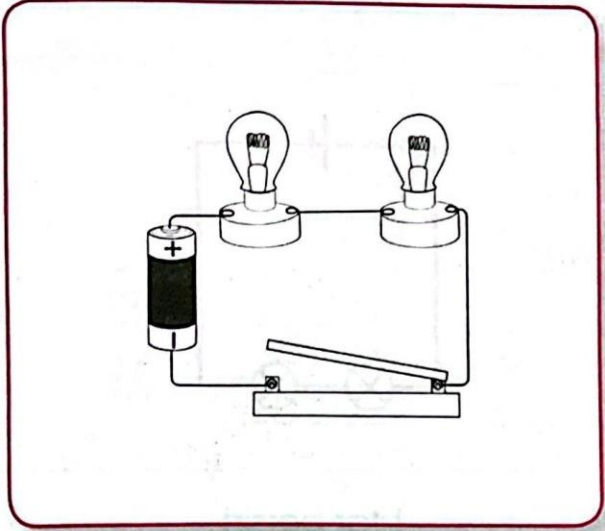
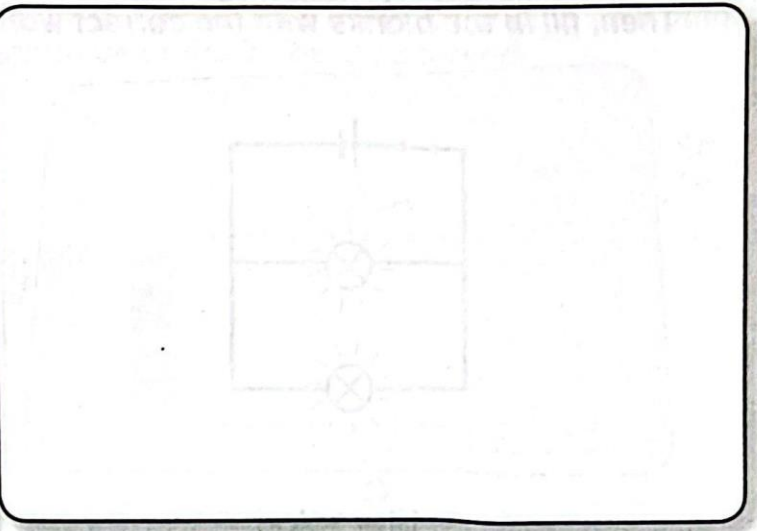
- 1 Namakan sumber-sumber tenaga elektrik.
Name the source of electrical energy.

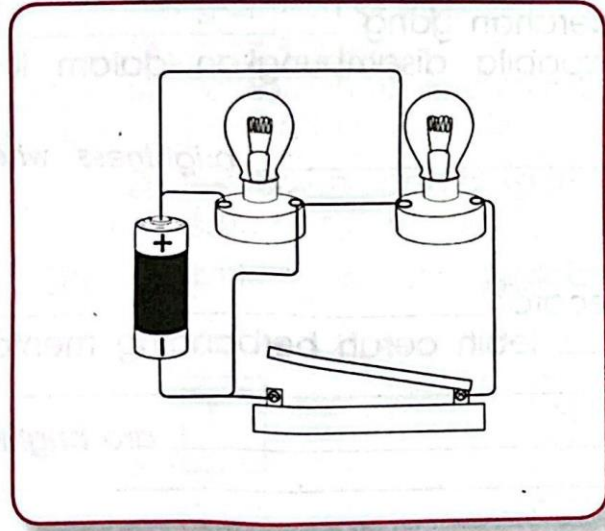
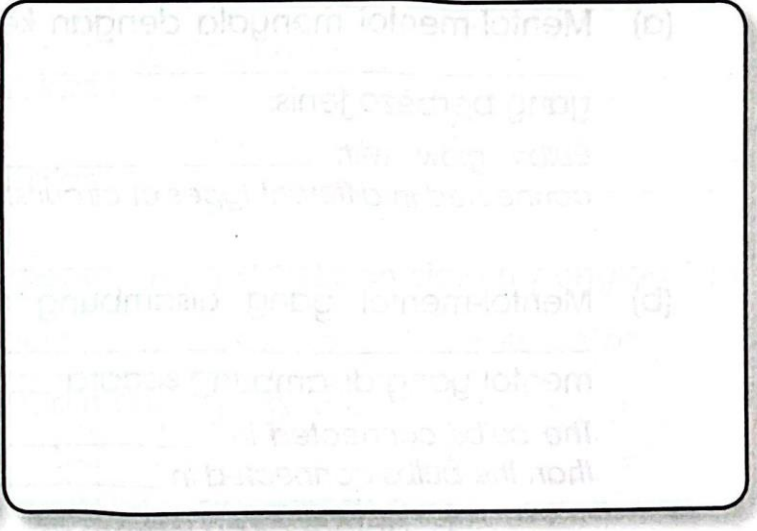
(a) 	sel kering dry cell
(b) 	dinamo dynamo
(c) 	stesen jana kuasa power plan
(d) 	akumulator accumulator
(e) 	sel suria dry cell
	generator generator

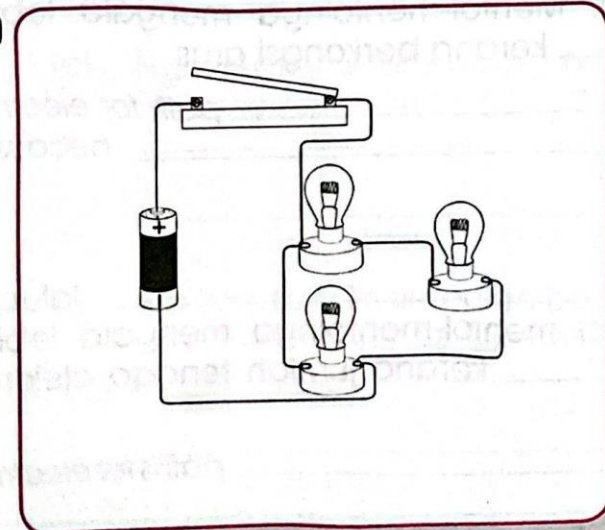
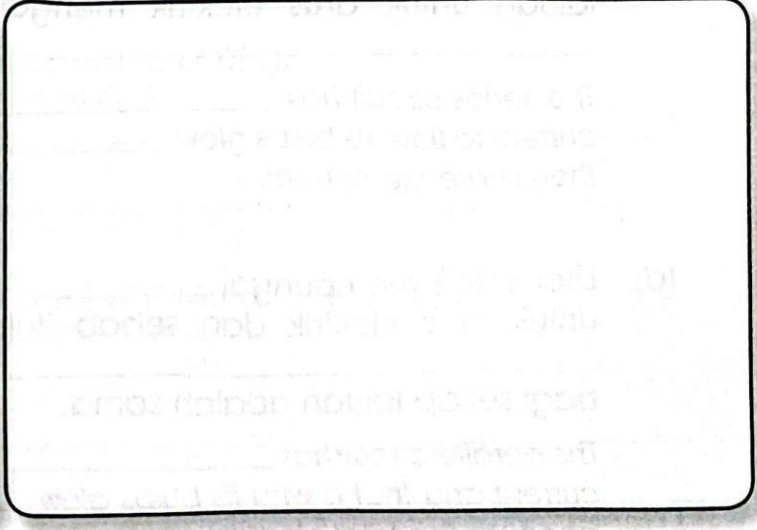
- 2 Perhatikan susunan mentol didalam setiap litar dibawah.
Kemudian tuliskan litar bersiri atau selari.
Observe the arrangement of bulbs in each circuit below.
Then write series or parallel circuit.

(a) 	
(b) 	
(c) 	
(d) 	

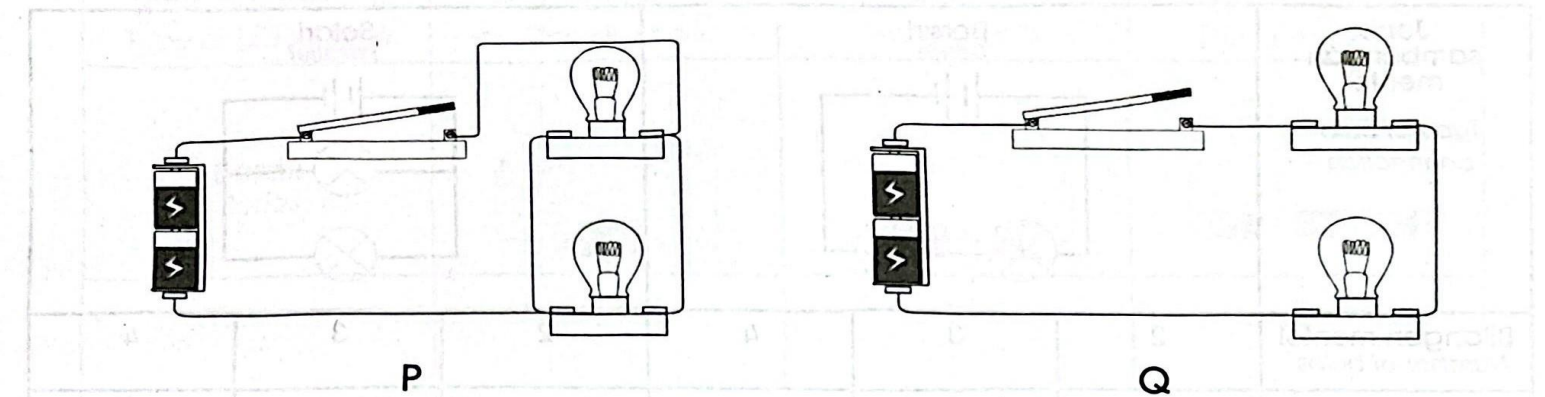
- 4 Lakar semula setiap litar di bawah dengan menggunakan simbol.
Redraw each circuit below using symbols.

(a)  

(b)  

(c)  

- 6 Rajah di bawah menunjukkan dua jenis litar yang dikaji oleh sekumpulan murid dalam suatu penyiasatan. Dua biji mentol disambungkan secara berlainan dan kecerahan nyalaan mentol-mentol itu diperhatikan.
The diagram below shows two circuits investigated by a group of pupils. Two bulbs are connected differently and the brightness of the bulbs is observed.



- (a) Nyatakan pemboleh ubah-pemboleh ubah yang berikut dalam penyiasatan di atas.
State the following variables for the investigation above.
- (i) Pemboleh ubah dimanipulasikan : _____
Manipulated variable:
- (ii) Pemboleh ubah bergerak balas : _____
Responding variable:
- (b) Padankan litar dan nyalaan mentol yang dihasilkan dalam penyiasatan itu.
Match the circuit and the brightness of bulbs produced in the investigation.
- | | |
|---|---|
| P | Nyalaan mentol yang terang
<i>Bright bulbs</i> |
| Q | Nyalaan mentol yang malap
<i>Dim bulbs</i> |
- (c) Nyatakan inferens bagi jawapan kamu di 6(a).
State the inference for your answer in 6(a).
- _____
- _____
- (d) Berikan satu kesimpulan bagi penyiasatan di atas. **KBAT**
Give a conclusion for the investigation above.
- _____
- _____