

Goal • Use this handout to practise drawing circuits.

What to Do

Draw a circuit diagram in the right column to match the design criteria stated in the left column. Each circuit diagram can have as many switches as you need.

Design Criteria	Circuit Diagram
<p>1. Show an arrangement for two lights and one buzzer such that</p> <ul style="list-style-type: none"> (i) all three can be on, or off, at the same time (ii) the buzzer is off, but the two lights are still on (iii) one light is off, but the buzzer and the other light are both off 	
<p>2. Show an arrangement for two lights and two buzzers such that</p> <ul style="list-style-type: none"> (i) all four can be on, or off, at the same time (ii) one buzzer is off, but the other buzzer and the two lights are on (iii) one light is off, but the other light and the two buzzers are on (iv) both lights are off, but the two buzzers are on 	
<p>3. Show an arrangement for two lights and two buzzers such that</p> <ul style="list-style-type: none"> (i) all four can be off, or on, at the same time (ii) it is not possible to turn both buzzers off, or both lights off, and still have a closed electric circuit (iii) one buzzer and one light can be on at the same time 	