Changing the Brightness of a Bulb

You can change the <u>brightness</u> of a <u>bulb</u> by making changes to the circuit it's in. Changing the <u>number</u> of cells, the <u>voltage</u> of cells or the <u>number of other components</u> will all have an effect.

1. Use the words in the boxes on the right to fill in the gaps in the sentences below.

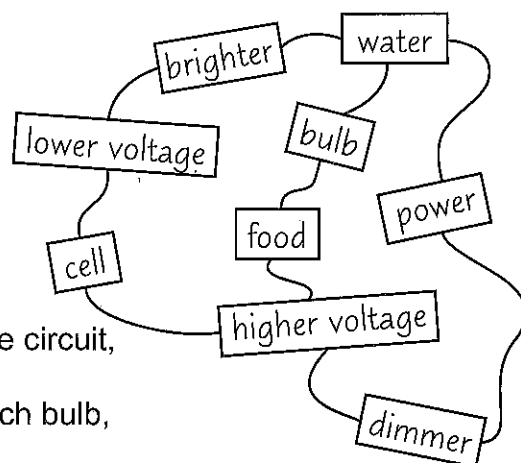   You can make a bulb brighter by adding

    another .... to the circuit.

    Or you could use a more powerful cell

    with a ....

    If you added another .... to the circuit,

    there would be less .... for each bulb,

    so both bulbs would be .... than the original one.

    brighter   water   lower voltage   bulb   cell   food   power   higher voltage   dimmer
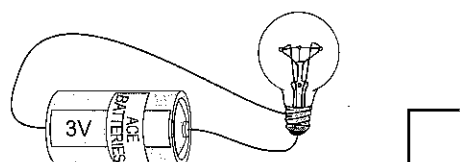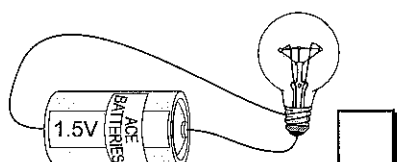
2. For each pair of circuits shown below, tick (✔) the circuit that will have the **brighter** bulb (or bulbs). Give a **reason** for each answer on the dotted lines.
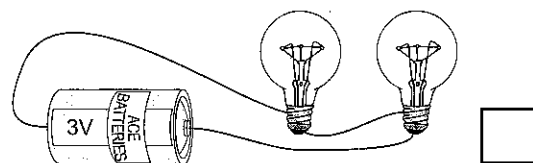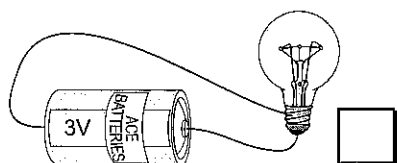
    a)

    ....
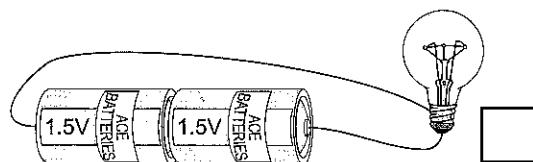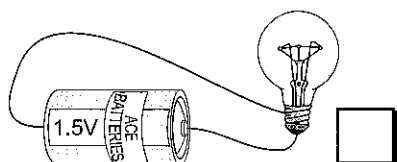
    b)

    ....

    c)

    ....

INVESTIGATE ....

How many bulbs can you count in the room you are in? Write down where they all are.