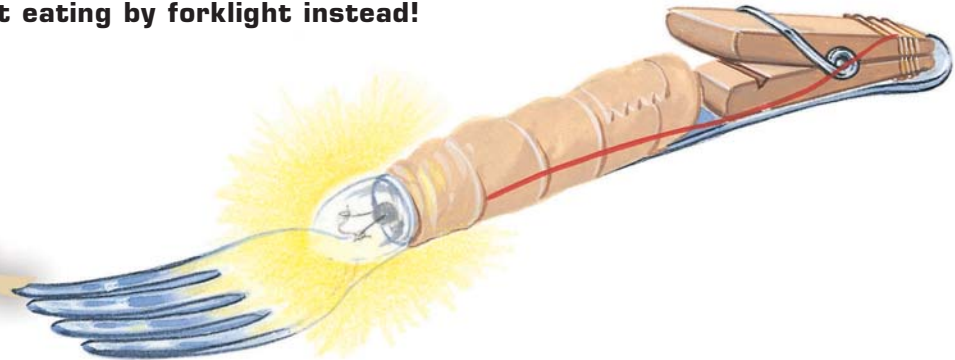


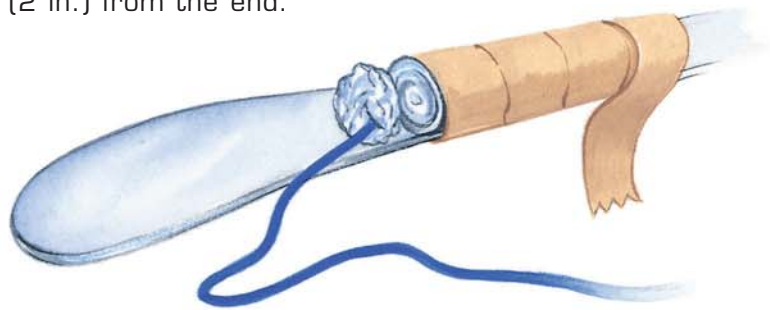
Illuminated Fork

Next time your parents want you to eat dinner by candlelight, suggest eating by forklight instead!



1 Cut a 20 cm (8 in.) length of wire. Remove 7.5 cm (3 in.) of insulation from each end with open scissors or wire strippers. Use this wire to make a small battery pad for the AAA battery (see page 8).

2 Tape the battery pad to the negative (-) end of the battery. Tape the battery to the top of the fork handle with the battery pad about 5 cm (2 in.) from the end.

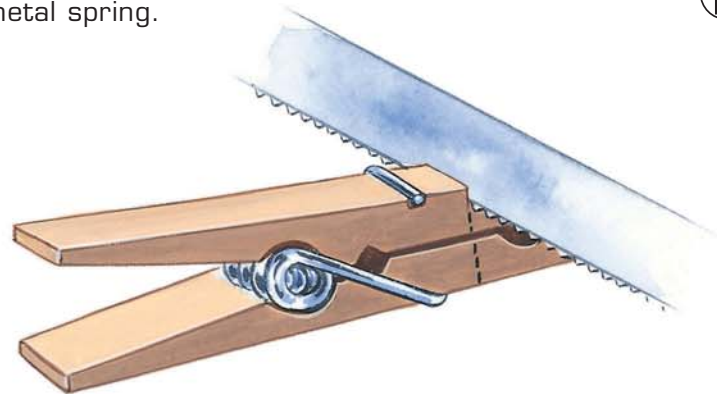


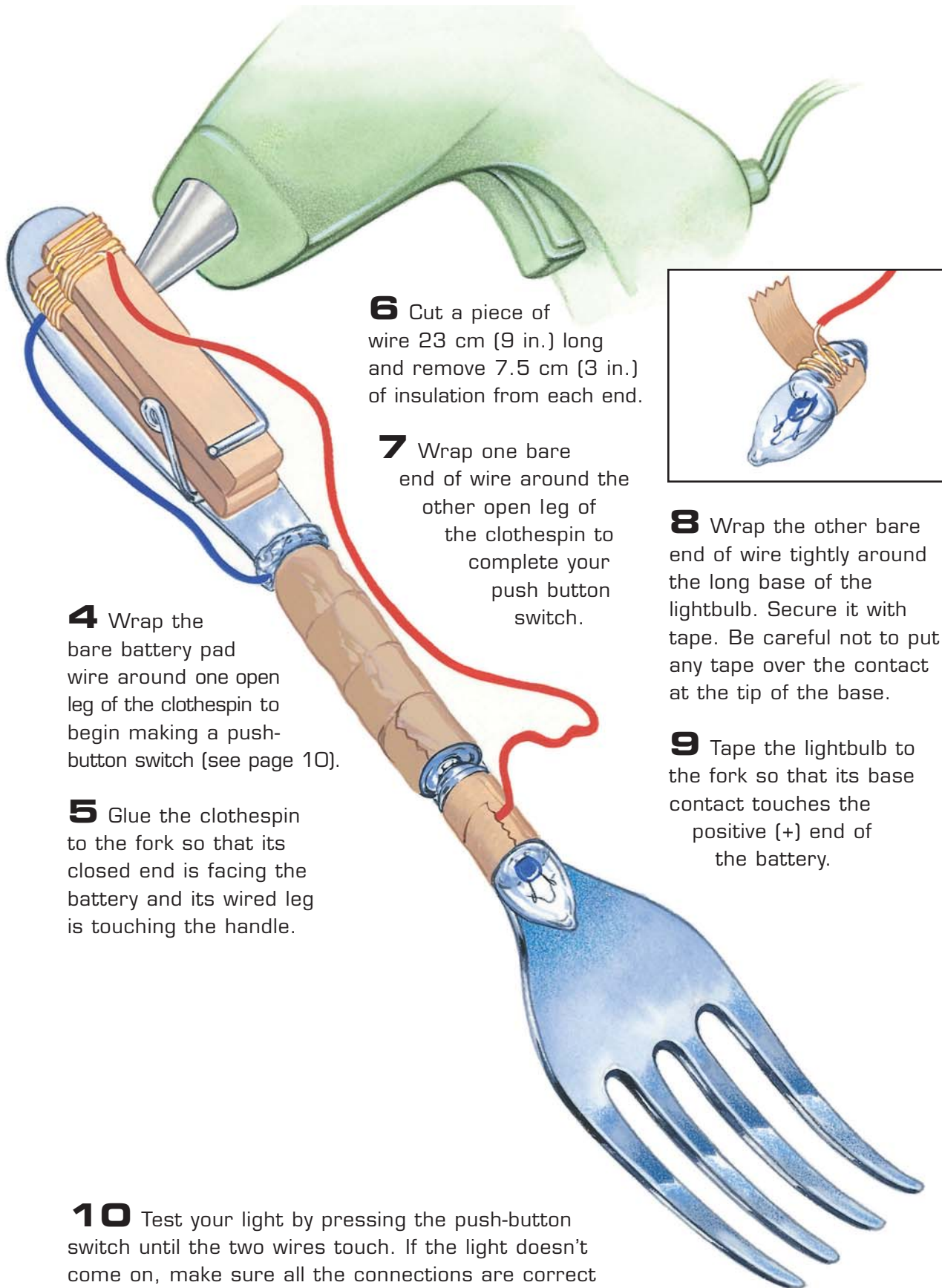
3 With a hacksaw, carefully cut off the closed end of the clothespin, about 1 cm ($\frac{1}{2}$ in.) from the metal spring.



YOU WILL NEED

- wire
- a AAA cell battery (1.5 V)
- thin cardboard
- aluminum foil
- masking tape
- a fork — but ask permission first!
- a hacksaw
- a wooden clothespin
- a hot-glue gun
- a small lightbulb (1.5 V)





4 Wrap the bare battery pad wire around one open leg of the clothespin to begin making a push-button switch (see page 10).

5 Glue the clothespin to the fork so that its closed end is facing the battery and its wired leg is touching the handle.

6 Cut a piece of wire 23 cm (9 in.) long and remove 7.5 cm (3 in.) of insulation from each end.

7 Wrap one bare end of wire around the other open leg of the clothespin to complete your push button switch.



8 Wrap the other bare end of wire tightly around the long base of the lightbulb. Secure it with tape. Be careful not to put any tape over the contact at the tip of the base.

9 Tape the lightbulb to the fork so that its base contact touches the positive (+) end of the battery.

10 Test your light by pressing the push-button switch until the two wires touch. If the light doesn't come on, make sure all the connections are correct and secure.