

# Power Sources and Electric Circuits

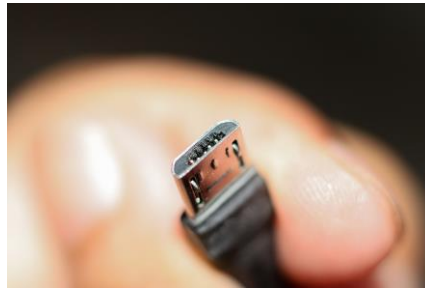
Applied Mechatronics

First Grade Level

Wolfgang Neff

# Power Sources (1)

- Some impressions of power sources



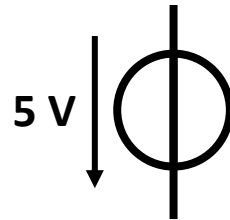
# Power Sources (2)

- Real and schematic DC voltage sources

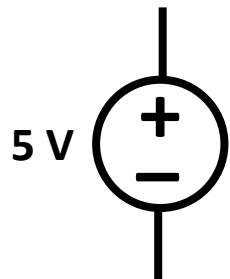
Object



Symbol



EN-60617  
(European)

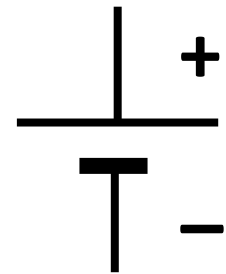


IEC 60617  
(American)

Object

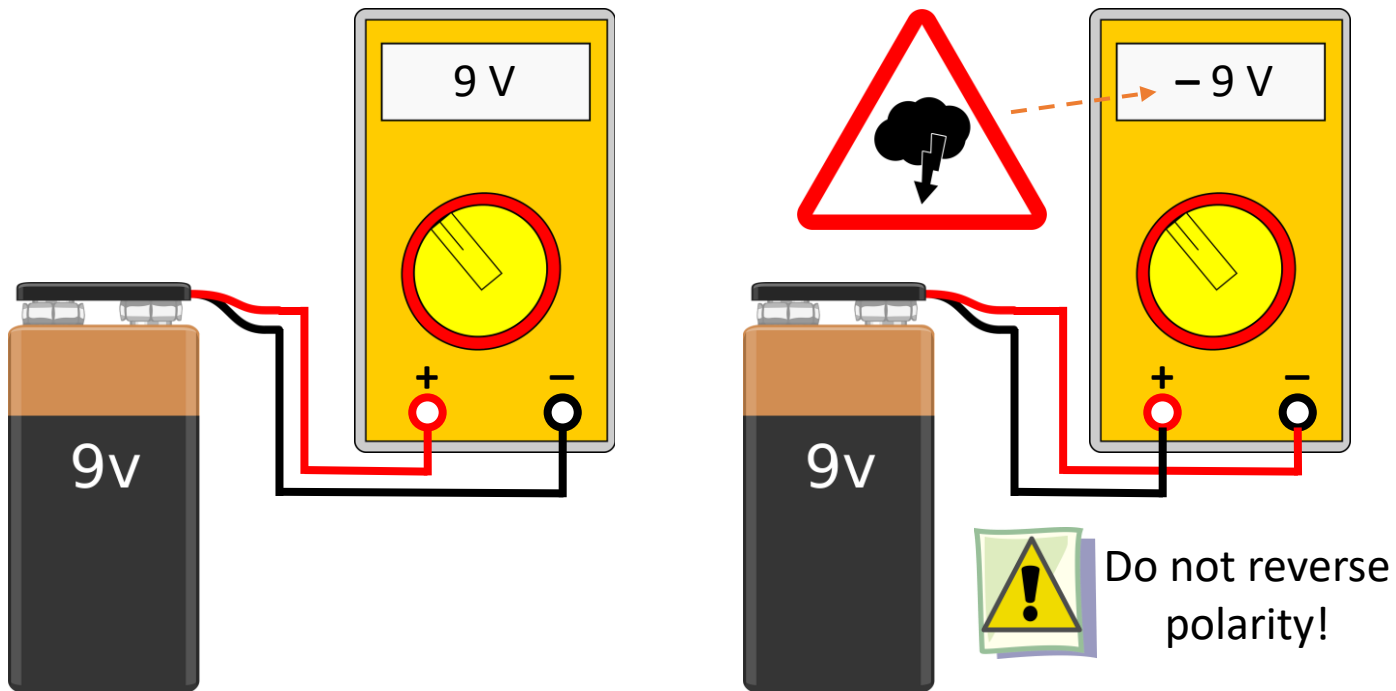


Symbol



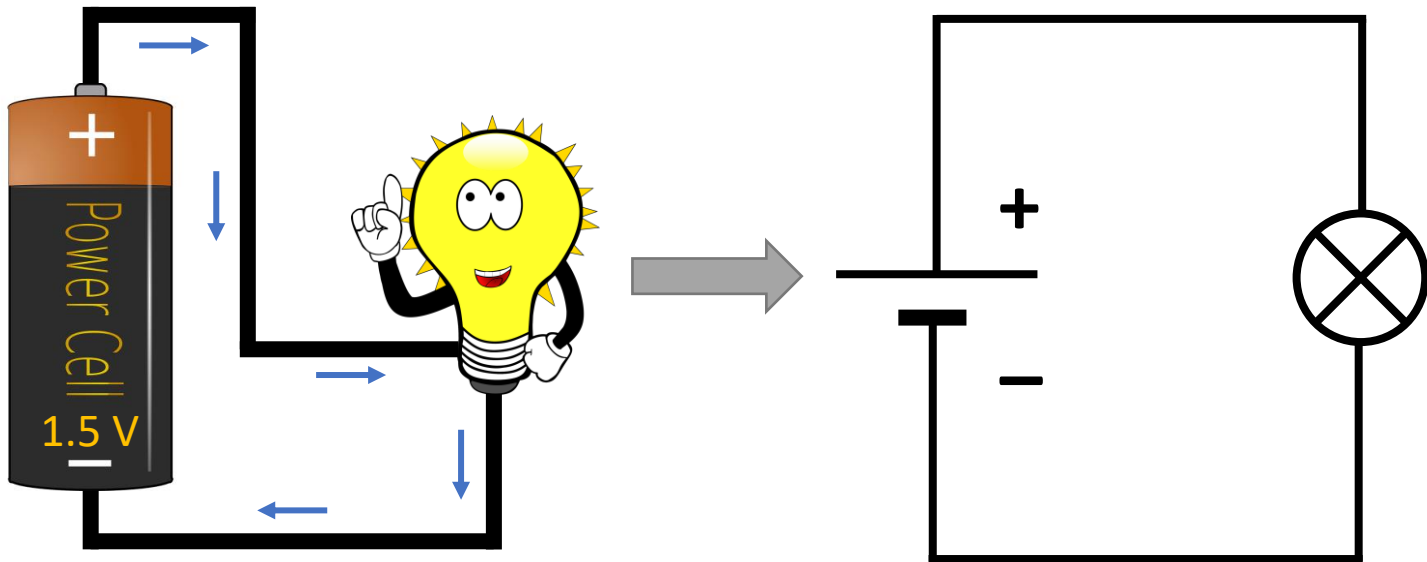
# Power Sources (3)

- Direction is important. Color, too.



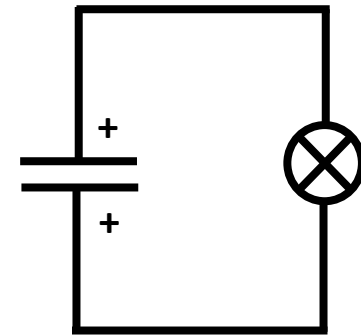
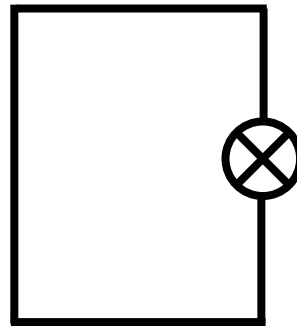
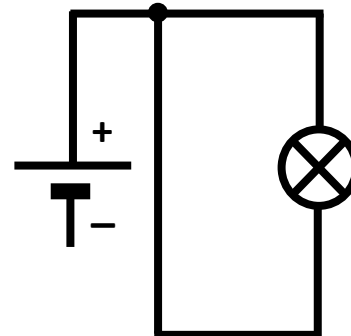
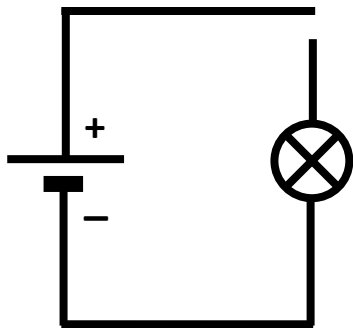
# Electric Circuits (1)

- Real and schematic electric circuits



# Electric Circuits (2)

- Broken circuits do not work well



# Electric Circuits (3)

- Short circuits mean danger and heat

