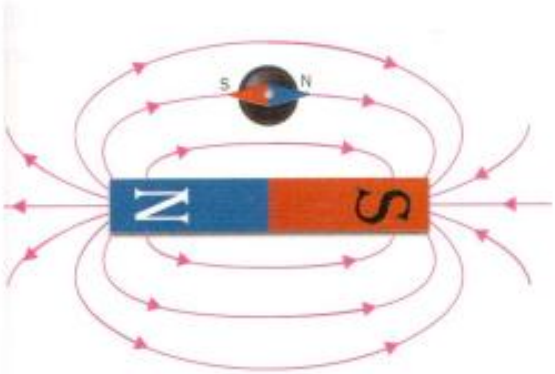
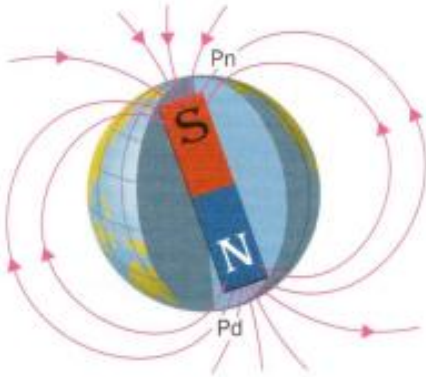
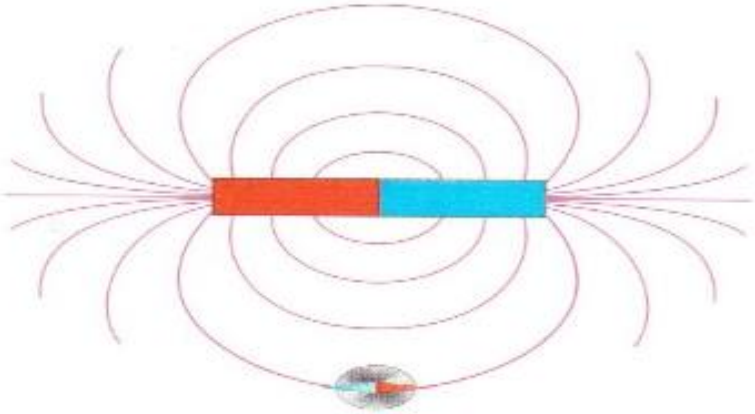
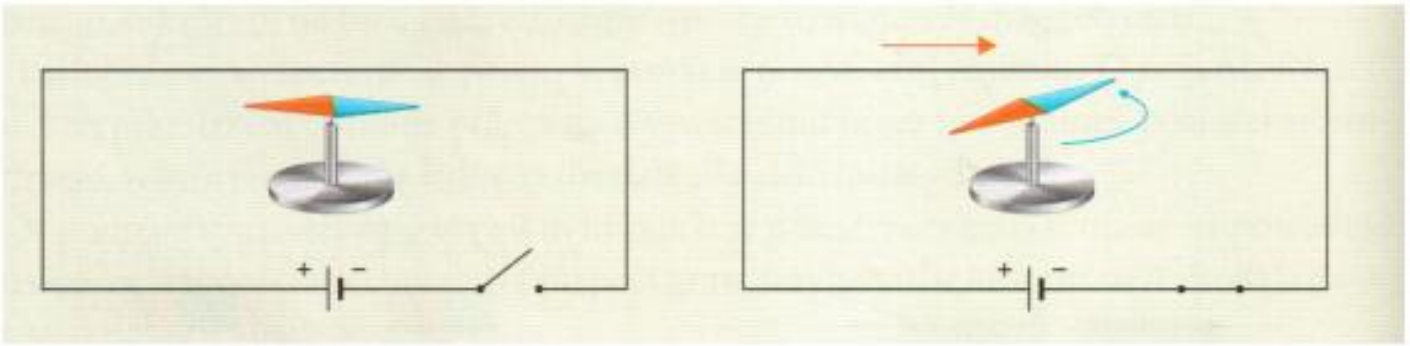
Badanie pola magnetycznego w pobliżu magnesu trwałego, zwojnicy i elektromagnesu (wymaganie doświadczalne 13.4))





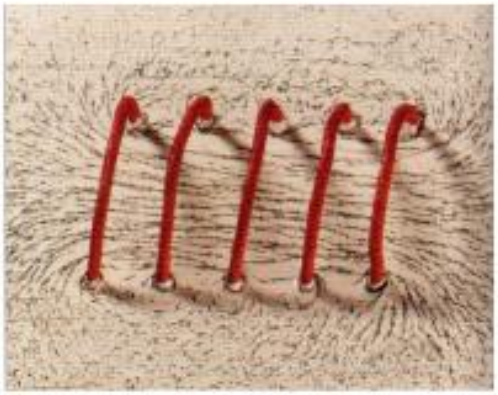


Pole magnetyczne przewodnika z prądem



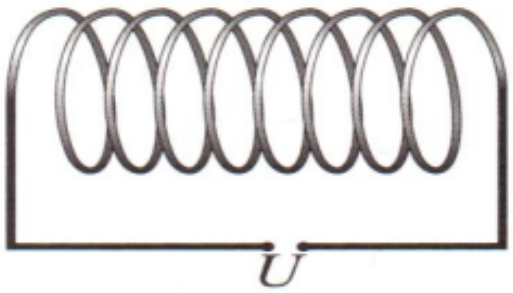






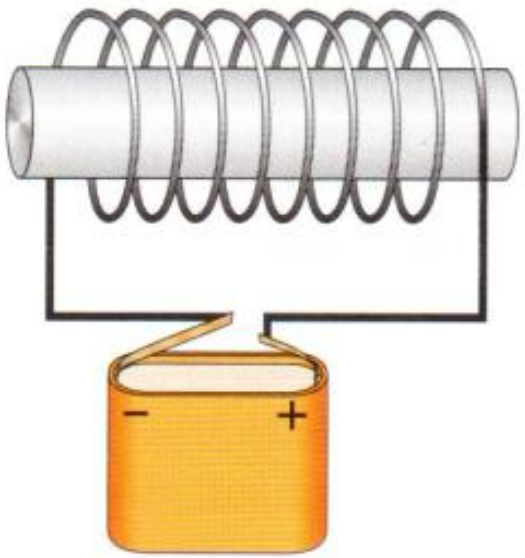
$$B = \frac{\mu_0 \mu_r I}{2\pi r} \qquad B = \frac{\mu_0 \mu_r I}{2r} \qquad B = \frac{\mu_0 \mu_r n I}{l}$$

Zwojnica (solenoid)



$$B = \frac{\mu_0 n I}{l}, \qquad \mu_0 = 4\pi 10^{-7}\,\frac{\mathrm{N}}{\mathrm{A}^2}$$

Elektromagnes



$$B = \frac{\mu_0 \mu_r n I}{l}, \qquad \mu_0 = 4\pi 10^{-7} \frac{\mathrm{N}}{\mathrm{A}^2}$$