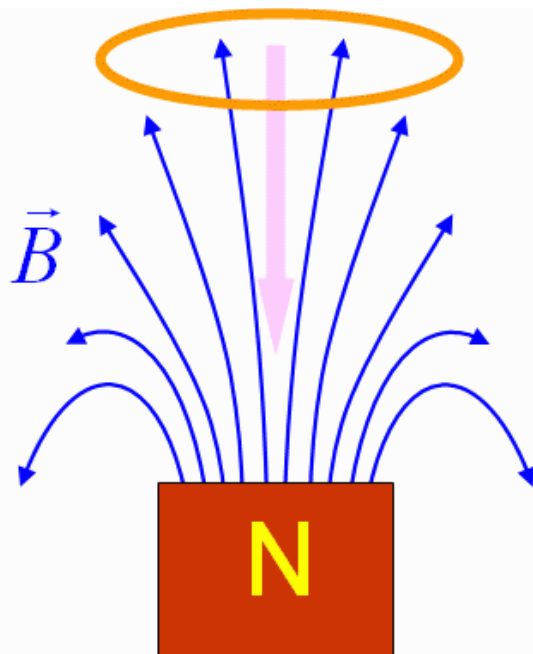


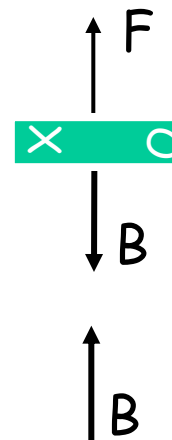
Cool Example



A horizontal copper ring is dropped from rest directly above the north pole of a permanent magnet



(copper is not ferromagnetic)



Like poles repel

→ $F_{\text{total}} < mg$

→ $a < g$

Will the acceleration a of the falling ring in the presence of the magnet be any different than it would have been under the influence of just gravity (i.e. g)?

A. $a > g$

B. $a = g$

C. $a < g$

This one is hard !

Upward B field increases as loop falls

Clockwise current (viewed from top) is induced