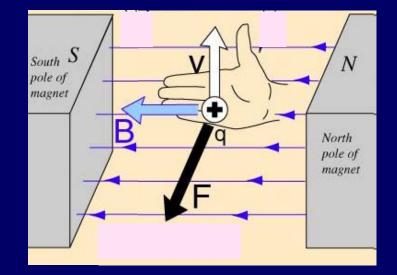
Magnetic Fields and Forces

Magnetic field B exerts force on moving charge Megnitude

 $F = qvB\sin\theta$

- Magnetic force is perpendicular to both B and v ightarrow
- "Right-hand rule" (RHR):
 - Thumb of right hand along **v**
 - Fingers of right hand along B
 - Out-of-palm points
 - in the direction of F for + charge
 - opposite to F for charge



Note: there are different versions of RHR

ightarrow

inection