

- Electric force can accelerate objects by changing their speed and/or direction.
- Electric force can do work, $W_E = \int q \vec{E} \cdot d\vec{s}$
- Magnetic force can only accelerate objects by changing their direction. (Acts perpendicular to velocity.)
- Magnetic force does not do work, $W_B = \int (q\vec{v} \times \vec{B}) \cdot \vec{v} dt = 0 \text{ (where } \vec{v} = \frac{d\vec{s}}{dt})$





















