- Magnetic field $\vec{B}$ is directed into plane.

- Magnetic force: $\vec{F} = q\vec{v} \times \vec{B}$ (not constant)

- $\vec{F} \perp \vec{v} \Rightarrow \vec{F}$ changes direction of $\vec{v}$ only $\Rightarrow v = v_0$.

- $\vec{F}$ is the centripetal force of motion along circular path.

- Radius: $\dfrac{mv^2}{r} = qvB \Rightarrow r = \dfrac{mv}{qB}$

- Angular velocity: $\omega = \dfrac{v}{r} = \dfrac{qB}{m}$

- Period: $T = \dfrac{2\pi}{\omega} = \dfrac{2\pi m}{qB}$