3. The force on a particle of charge $q$ moving at speed $v$ perpendicular to a magnetic field of strength $B$ is given by

$$
\begin{aligned}
& F=q \vee B \\
& F=(0.006 C)(400 \mathrm{~m} / \mathrm{s})(0.3 \mathrm{~T}) \\
& F=0.72 \mathrm{~N}
\end{aligned}
$$

