

Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

**Marker's
Initials**

Prelab 1

What is the direction (relative to the plane of the coil) of the magnetic field at the center of a circular coil of wire with current I ?

Prelab 2

Considering the discussion on the instruction pages, calculate the value of the local magnetic field given the following:

Number of turns, $N = 6$

$I = 0.15 \text{ A}$

Diameter of coil = 32.6 cm

Deflection angle = 27°

Show your workings.

STAPLE YOUR PRE-LAB TO THIS PAGE