

Activity 6.1: Find the Magnet

Task 1: Questions

Briefly describe the purpose of a magnetometer.

The magnetometer detected magnetic field

What does a vector magnetometer measure?

Vector magnetometers measure the vector components of a magnetic field

Task 2: Experimental Set-Up

- ☑ Get a bar magnet and sheet of paper/cardboard/other material to cover the magnet

- ☑ Upload the code

Task 3: Locate the Magnet

☑ Slowly move the LunaSat above the material covering the magnet

Write down the magnitude of the magnetic field near the bar magnet ~75 uT

Task 4: Experiment

☑ Try covering the magnet with different materials

Material	Thickness	Magnetic Field Magnitude
Metal	0.54 mm	20 uT
Paper	13 mm	64 uT
Rubber glove	0.2 mm	70u

GLEE Workshop 1 October 16, 2021