

CLASS – X
SCIENCE
LESSON PLAN
CHAPTER – MAGNETIC EFFECTS OF ELECTRIC CURRENT

Sub-Topic	Magnetic Fields and Field Lines
Duration	Approx. 40 minutes
PRE-REQUISITE KNOWLEDGE	Basic knowledge of Bar Magnet : Like Poles repel and Unlike Poles attract
Learning Objective	Students will be able to visualise the magnetic field around the bar magnet and list the properties of magnetic field lines.
Methodology	Strategies used – Activity Based Learning Think – Pair Share Facilitator will begin the class by demonstrating the following Activity (15 min): Keep a bar magnet under a piece of paper and sprinkle iron filings on it. Students will observe the pattern in pairs and write their observations in notebook individually. They will share their observations with partner for effective cooperative learning. Facilitators will discuss the observations made by the students with them and lead them to idea of magnetic field and magnetic field lines. Discussion of Topic (15 min) – Properties of magnetic field lines along with it's diagram. Recapitulation (5 min) Students will draw magnetic field pattern around the bar magnet for better assimilation.
Learning Outcomes	Students will be able to: • Define magnetic field. • List properties of magnetic field lines. • Explain why magnetic field lines cannot intersect each other. • Draw magnetic field pattern around a bar magnet. Knowledge and Understanding • Critical Thinking • Problem Solving • Collaboration Skills and Competencies
H.W. Assignment	1. Draw magnetic field lines around a bar magnet. 2. List the properties of magnetic lines of force. 3. Why don't two magnetic lines of force intersect each other?