



OBJECTIVE

CONSTRUCT A THEODOLITE MODEL TO MEASURE HEIGHTS USING TRIGONOMETRY.

MATERIALS

PROTRACTOR, STRAW, CARDBOARD, TAPE, MEASURING TAPE, CALCULATOR, A4 SHEETS

STEPS

ATTACH A STRAW TO A PROTRACTOR TO CREATE A THEODOLITE FOR SIGHTING.

CHOOSE AN OBJECT (E.G., A WALL) AND MEASURE THE DISTANCE TO ITS BASE.

MEASURE THE ANGLE OF ELEVATION TO THE TOP USING THE THEODOLITE.

CALCULATE HEIGHT: HEIGHT = DISTANCE × TAN(ANGLE).

VERIFY WITH A MEASURING TAPE.
WRITE A 150-WORD REPORT WITH DIAGRAM AND
RESULTS.

PRESENT THE MODEL AND CALCULATIONS.

LEARNING OUTCOMES

PRACTICAL APPLICATION OF TRIGONOMETRY IN SURVEYING IMPROVED SKILLS IN MODEL-BUILDING AND

MEASUREMENT



Objective

Demonstrate the principle of electromagnetism.

Materials

Iron nail, copper wire, battery, paperclips, tape

Steps

Wrap copper wire tightly around an iron nail (50–100 turns).

Connect wire ends to a battery to create an electromagnet.

Test by picking up paperclips and count them.

Disconnect the battery and observe the effect.

Document observations and explain

electromagnetism.

Learning Outcomes

Understanding magnetic fields and electricity Practical application of scientific concepts



POSTER ON FUNDAMENTAL RIGHTS

Objective

Understand and communicate the importance of Fundamental Rights.

Materials

Chart paper, colors, markers, printed images

Steps

Research the six Fundamental Rights from the NCERT textbook.

Create a poster with a section for each right.

Include a brief description and a real-life example
for each.

Add illustrations or images to enhance the poster. Present the poster and explain one right in detail.

Learning Outcomes

Knowledge of constitutional rights Enhanced research and presentation skills



Objective

Analyze characters from any story given in the book and express findings creatively.

पुस्तक में दी गई किसी भी कहानी के पात्रों का विश्लेषण करें और निष्कर्षों को रचनात्मक ढंग से व्यक्त करें।



Summarize a Hindi story and present it visually.

एक हिंदी कहानी का सारांश बनाइये और उसे दृश्यात्मक रूप में प्रस्तुत कीजिये।



Summarize a story and present it visually.
एक कहानी का सारांश बनाइये और उसे दृश्यात्मक रूप में प्रस्तुत
कीजिये।