

Electromagnets

1.) Write five things you know about magnets.

2.) What is the relationship between magnets and electricity?

Issue to solve: Your school has a lot of scrap metal (paper clips) left over from the construction of the science wing. You and your partner are responsible for designing and testing your electromagnet. Your goal is to clean up the scrap metal (paperclips).

In your report, you will need to make the relationship between the amount electricity and the strength of magnets.

Objectives:

1. From your material list below and the issue above, identify your IV, DV, Control, Constants, Problem Statement and Hypothesis statement.
2. Next, create your procedures /experimental design.
3. Create a data table
4. Run your experiment
5. Complete a graph that will display the data gained from your experiment.
6. Conclusion

Materials:

- Worksheets & graph paper
- C, D, or 9 volt batteries
- Insulated copper wire
- 20 penny nails
- Paper clips