



higher education
& training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA



Tshwane South
TVET College

"achieve the future"

SUBJECT: FOUNDATIONAL SCIENCE

LEVEL: PLP

MODULE/CHAPTER NO: MODULE 3

**UNIT 4.2 ELECTRICITY AND
MAGNETISM**

UNIT 4.2 ELECTRICITY AND MAGNETISM

After completing this topic, you will be able to:

1. Define magnetism
2. Distinguish between the three different types of magnets
3. Know the properties of magnets
4. Identify the similarities between electricity and magnetism

UNIT 4.2 ELECTRICITY AND MAGNETISM

4.2.4 The similarities between electricity and magnetism

- Both electric forces and magnetic forces are non-contact forces (can work over a distance).
- Both types of forces can be **repelling** forces as well as **attracting** forces.
- Both forces are produced by the **electric charges** inside atoms.

Activity 4.5 Uses of magnets (Practical)



For this activity, work in groups. This means that you must work with three or four other people.

Your lecturer will provide you with a sheet of flipchart paper and pens. You need to:

1. Research on the Internet or from books to learn more about the everyday uses of magnets and electromagnets.
2. With your information you need to build a poster to show what you have found. You can write, you can use pictures – imagine that you are explaining this to someone who knows nothing about magnets!
3. When you are done you will present your poster to the rest of the class – decide among your group who will present what, all of you have to present something.
4. Take a photo of your poster and print it. Paste it into your workbook.

SOLUTIONS

Students must present their own posters.
