Lembar Kerja Peserta Didik

# LKPD

## Chapter 1 Static Electricity



Nama: _____

Kelas: _____

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# Activity 1

**Objectives**

- To demonstrate the presence of electric charges on an object and the effects resulting from the nature of those charges
- To show the existence of electrostatic forces between two charged objects.

**Tools and Materials**

- 2 ping pong balls
- Sewing thread
- Wool and nylon fabric sheets
- Plastic bag
- Adhesive tape (Isolasi)
- Plastic comb
- Small scraps of paper

**Procedures**

1. Hang one ping pong ball from the edge of a table using thread and tape.
2. Rub the plastic bag against your clothing several times, bring it close to the ping pong ball, and observe what happens.
3. Rub the plastic comb through your hair several times, bring it near the small scraps of paper on the table, and observe the reaction.
4. eave the second experiment (comb and paper) for an extended period and observe any changes.
5. Tie both ping pong balls to threads and hang them from the edge of the table using tape.
6. Bring the two balls close together without letting them touch and observe the result.
7. Rub both the left and right balls with wool fabric, then bring them close together and observe the reaction.
8. Complete the observation tables provided in the worksheet



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## Observation Data

| Left Ball Rubbed With: | Right Ball Rubbed With: | | |
|---|---|---|---|
| | Wool | Plastic | Nylon |
| Wool | | | |
| Plastic | | | |
| Nylon | | | |

| Rubbed Balls | Distance: 1 cm | Distance: 2 cm | Distance: 3 cm |
|---|---|---|---|
| Wool - Wool | | | |
| Plastic - Plastic | | | |
| Nylon - Nylon | | | |

## Data Analysis:

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## Conclusion

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