

Lesson Plan - 1

Subject: Physics

Topic: Frictional Electricity

Sub – Topic: Electrification of Rubber Balloon

Class: Grade 6

Duration: 15 mins

Aim:-

- Students will gain an understanding of the forces at work during a thunderstorm using balloons to create static electricity, good example of electricity in the air
- To demonstrate the positive and negative attraction

Materials Required:-

1. Rubber balloons
2. Thread

Procedure:-

- Blow air in 3-4 balloons
- Tie the mouths of two balloons with two threads of equal lengths
- Tie the mouth of other two balloons without threads
- Bring the balloons tied with thread close to each other (Observe result)
- Balloons neither attract nor repel each other
- Rub both the balloons once in dry hair and bring near each other and observe result (Discuss)
- Rub other balloon (without thread) on dry hair 2-3 times and let free the balloon on hair. The balloon does not fall (Discuss)
- Bring the rubbed balloon in contact to wall. The balloon does not fall (Discuss)



Conclusion:

After rubbing the balloon against your clothes, it will attract your hair and make it "fly" toward the balloon. Balloon when rubbed on dry hair gets charged.

Concept in daily life:

- While combing hairs, the comb gets electron & becomes negatively charged & attracts pieces of paper.
- Lightning is a powerful form of static electricity.