

Lesson 1A

Static Electricity

Vocabulary: **electric charges, static electricity**

Creating Static Electricity

Many objects can be electrically charged by rubbing them. A charged object can attract some objects.

Materials:

Comb, small bits of paper, wool cloth

Procedures:

Put the students into groups of two. Have someone gather the materials and return to the work station.

Prediction:

Ask students to make a prediction as to what they think will happen.

Activity:

Rub the wool cloth against the comb for about 40 seconds. Hold the comb near the paper.

Results:

Ask the students to discuss with their partner what happened.

Hypothesis:

Ask the students to discuss what may have caused the outcome.

Conclusion:

The wool cloth attracted the comb and rubbing the comb gave it a charge.

Lesson 1B

Observing Static Electricity

A charged object has a positive or a negative charge. Objects with opposite charges attract each other. Objects with the same kind of charges repel each other.

Materials:

Balloons (blown up ahead of time), thread, wool cloth

Procedure:

Put the students into groups of two. Have someone gather the materials and return to the work station.

Prediction:

Ask students to make a prediction as to what they think will happen after the balloons have been rubbed with the wool cloth.

Results:

Ask the students to discuss with their partner what happened.

Hypothesis:

Ask the students to discuss what may have caused the outcome.

Conclusion:

1. When brought close together, objects with like charges repel each other.
2. When brought close together, objects with unlike charges attract each other.

Reading from Student Text pg. f44-f47

Creating Static Electricity

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SIMPLY SCIENCE
Investigating current electricity

Many objects can be electrically charged simply by rubbing them. A charged object can attract some objects. Copy the title, materials, and procedure on a sheet of paper. Write an answer to the prediction question. Then follow the procedure, write the results, and form a hypothesis by answering the question. Choose a conclusion and copy it.

Materials

comb, small bits of paper, wool cloth

Procedure

Put small bits of paper on your desk. Rub the wool cloth against the comb for about 40 seconds. Hold the comb near the paper.

Prediction

What do you think will happen?

Results

What happened?

Hypothesis

What may have caused that to happen?

Conclusion

1. The wool cloth attracted the comb.
2. Rubbing the comb gave it a charge.



