

Review

Worksheet 11.1

Part A Review

1. What is the charge of an object that has more electrons than protons? More protons than electrons? The same number of protons and electrons?

2. What kinds of forces can an electric charge produce? Give an example of each.

3. Describe how you can use a negatively charged comb to determine the charge of pieces of confetti.

Part B Skills Development

Infer

Explain what is happening in each diagram. Write your explanations on a separate sheet of paper.

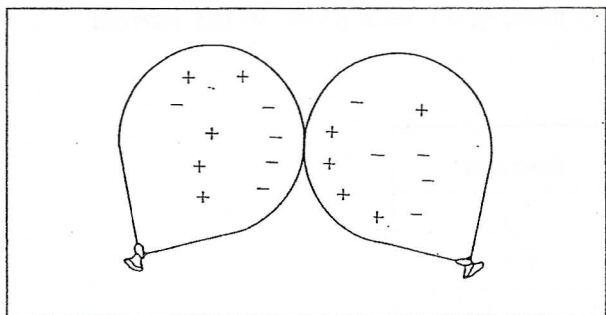


Figure A

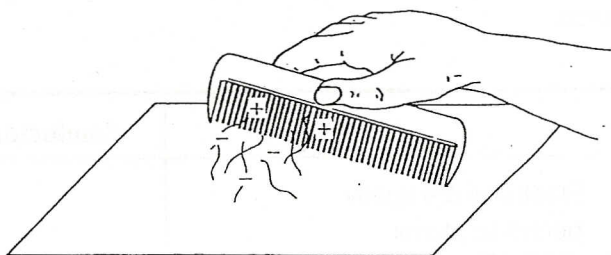


Figure B

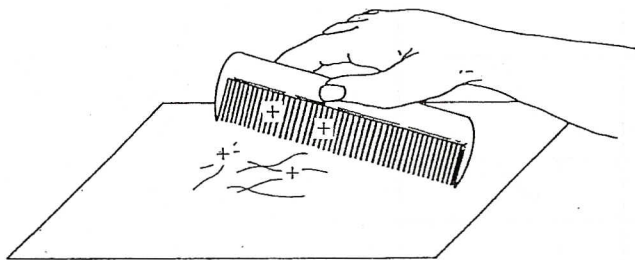


Figure C

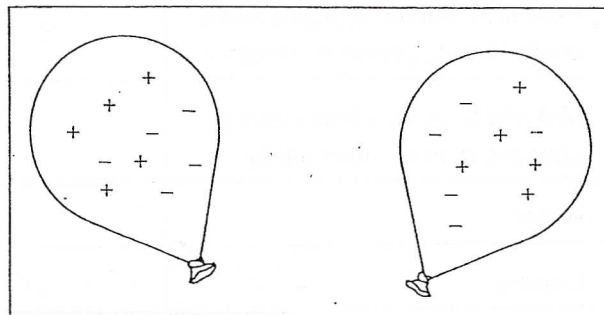


Figure D

Review

Worksheet 11.2

Part A Review

1. Name three ways static electricity can build up.

2. Why can you get a "shock" when you walk across a carpet and then touch a metal door-knob? Explain.

3. How does static electricity form in thunderclouds? Where are the positive and negative charges most likely to be located?

Part B Skills Development

Compare and contrast

Compare the properties of conductors and insulators by placing a check mark in the correct column.

	Conductor	Insulator
1. Electrons are tightly bound to atoms		✓
2. Large numbers of freely-moving electrons	✓	
3. Heat and electric charges move easily through these materials	✓	
4. Material through which electric charges cannot move easily		✓
5. Water		✓
6. Copper	✓	
7. Plastic		✓