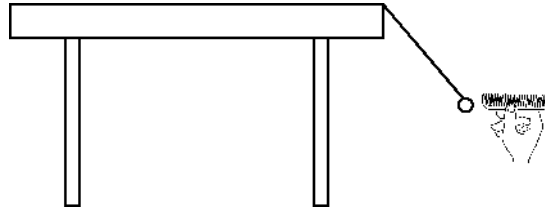


Name:

Date:

Class:

## Fun Things to Do with a Rubber Comb Worksheet Answers



1. Why was the cereal attracted to the comb (or balloon) at first?  
The rubber comb attracted the loosely-bound electrons that were on the hair or wool.
2. Why did the cereal repel quickly after it touched the comb (or balloon)?  
The cereal initially had a neutral charge. When the cereal touched the comb, it gained some of the comb's negative charge, and the cereal's charge distribution became the same as that of the comb. Then, they two objects repelled each other, since they were "like objects."
3. Why did the Styrofoam pellets stick to the comb (or balloon)?  
The Styrofoam pellets initially had a neutral charge. Therefore, they were attracted to the comb because of the comb's different energy charge distribution.