Scientists' Consensus Ideas The Electric-Charge Interaction

Name	Date Class	
(Unit 1 Chapter 2, Activity 3)		
	of the Electric-Charge Interact on occurs when a "charged" object is near ect.	
rubbing a balloon against your	ed, but when they are prepared in special w hair or pulling apart two pieces of tape), the arged, they can have one of two different kin	ney may become
uncharged object is that the t	rge interaction between a charged object a wo objects move towards each other. Who wo objects still move towards each other.	
What specific observation(s) did sentence? In which experiment v	you make that provides the evidence for was this observation(s) made?	the first
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of charge is that the two object turned around the two object sometimes summarized as "lil" What specific observation(s) did experiment was this observation. 1. Electric current arises from the and other parts in a circuit. Some (electrons) inside the conduction are attracted to the positive experiment.	cts move away from each other, and when s still move away from each other. This olke charges repel." If you make that provides this evidence? In (s) made?	n one object is oservation is In which ducting wires arges gative end and

Scientists' Consensus Ideas The Electric-Charge Interaction **5.** Both metal and non-metal objects can be involved in the electric-charge interaction. Which experiment supports this idea? What is the evidence? **Additional Ideas** Two types of electric charge: By engaging in a large number of experiments and discussions, scientists have agreed

that all matter consists of two kinds of electric charges. They have named these two types "positive" and "negative." The positive charges are protons, and the negative charges are electrons. (There are also "neutral" particles, that are neither positively nor negatively charged, and they are called neutrons.) A typical object contains a huge number of positive and negative charges, but normally there are exactly equal numbers of each. In that case all the negatives and positives balance out and entire object is said to be "uncharged."

How uncharged objects become charged:

Sometimes when you rub objects together (like rubbing a balloon against your hair), or pull them apart (like pulling apart two pieces of tape), you can cause some of the negative charges to move from one object to the other. In that case, the two objects become electrically charged. The object that ends up with extra negative charges is said to be "negatively charged" and the object that lost some of its electrons is said to be "positively charged."