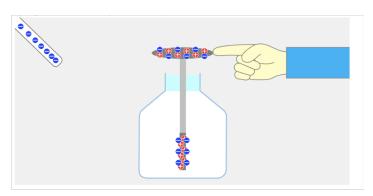
Name: Date:	Section: Teacher:		Number: Period:			
	#28: The Electroscope ting the electroscope.					
Instructions: Click this link: https:/		en/ You can refresh the brows	ser to reset the sim. You should see			
Negatively charged rod This is the electroscope		Top plate Metal foils th (+) • Charged with (-)	The electroscope is made up of two main parts. The top plate and metal foils. Being a good conductor, metal allows the free flow of negative charges.			
(1) Begin by counting			ectroscope (metals foils and top plate).			
There are ı	negative charges and	positive charges on the entire e	electroscope.			
_		the top plate. Use the words in the entire electroscope still has a	e box below one time each charge. However, since			
like charges repel one	another, most of the	charges on the electro	oscope move down toward the			
	The metal foils now hav	ve the same charge as one anothe	er and as a result the two metal			
foils	In this config	uration the electroscope is known	n as being <i>polarized</i> . The top plate of the			
electroscope has a ne	t char	rge and the metal foils have a net	charge.			
metal foils	spread neutral	negative positive	negative			
metal foils	spread neutral	negative positive	negative			
	<u> </u>	negative positive e electroscope. Use the words in t				
(3) Move the negative	ely charged rod away from the	e electroscope. Use the words in t	·			
(3) Move the negative	ely charged rod away from the charges attract so when the re	e electroscope. Use the words in tood is pulled away from the top pla	he box below one time each.			
(3) Move the negative	ely charged rod away from the charges attract so when the reexcess positive charges on the	e electroscope. Use the words in tood is pulled away from the top pla	the box below one time each. ate, the excess negatives on the metal foil			

(4) Next, click and drag the hand so that is it touching the electroscope as shown here. The person (not shown) attached to this hand is in contact with the earth and the electroscope is now said to be grounded.





(5) Move the negatively charged reach.	od toward a	nd away fror	m the electro	scope again. U	Jse the words i	n the box below one time
When the rod is brought close to	the top plate	of a ground	led electrosco	pe, most of th	ne	charges on the
electroscope are transferred 'to g	round' leavir	ng a net		charge on the	e electroscope.	Once the rod is pulled
away, negative charges come up f	rom		and repo	pulate the ele	ctroscope brin	ging it back to a
charge.	negative	neutral	positive	ground		
(6) Keep the hand touching the el- remove the ground (hand) and th When the ground is removed the	en pull the ro	od away. Use	e the words in	the box belo	w one time ead	ch.
Once the rod is pulled away the cl						
charge	. This proce	ss of chargin	g is know as <u>i</u>	<i>nduction</i> . Onc	e the hand is r	eturned to the
charged electroscope, negative ch	narges will co	ntinue comi	ng up from _		until th	e electroscope once agair
has a char	ge.	negative	neutral	positive	ground]