Name: Period	
i ciiou	Electricity Quiz 1
1. A for	ce of attraction always exists between two charged objects when
0	A. the charges on both objects have different magnitudes.
0	B. the charges on both objects have equal magnitudes.
0	C. the charges on the objects have opposite signs.
0	D. both objects have charges with the same sign.
has a p	e diagram below, the circles represent small balls that have electric charges. Ball 1 ositive charge, and ball 2 is repelled by ball 1. Ball 2 repels ball 3, and ball 3 ball 4. What is the electric charge on ball 4?
0	A. Ball 4 has a positive charge.
0	B. Ball 4 has a negative charge.
0	C. Ball 4 may have either a positive or negative charge.
0	D. It is not possible to know the charge on ball 4.
3. The	atoms of objects that are positively charged have
0	A. lost electrons.
0	B. gained electrons.
0	C. lost protons.
Ö	D. gained protons.
	fundamental unit of electric charge is equal to the on a(n)
_	A. hydrogen atom.
$\tilde{\circ}$	B. oil drop.
$\tilde{\circ}$	C. single electron.
$\tilde{\circ}$	D. single neutron.

Name	::
Perio	Electricity Quiz 1
5. A m	naterial that has few freely moving charge carriers is most likely to be classified as a(n)
0	A. metal.
O	B. semiconductor.
O	C. insulator.
O	D. conductor.
6. The	process of charging by contact works
0	A. only for insulators.
0	B. only for conductors.
0	C. when unlike materials rub against each other.
0	D. when a charged object comes in contact with the ground.
7. A co	onductor can be charged by, but an insulator cannot.
0	A. grounding
0	B. induction
0	C. polarization
0	D. contact
3. A n	egatively charged sheet of plastic will stick to a glass window by
0	A. taking electrons from the glass.
0	B. taking protons from the glass.
0	C. giving electrons to the glass.
0	D. polarizing the glass.
9. Ex	xplain the difference between conduction and induction.

10. Explain polarization and give an example of it.