onductors and Insulate	ors Name:		Date:
im: To discover which r	naterials are cond	ductors and whi	ch materials are insulators.
quipment: battery, amm	neter, light globe,	wires, materia	ls to be tested.
et up the equipment as sl	nown, leaving tw	o crocodile clip	s unattached (represented by the ar
	, 8	1	\ 1
+			
L:A ——⊗_J			
ace each material in het	ween the unattac	hed clins to det	ermine how well it conducts. Fill in
nace each material in bet	ween the unattac	med emps to det	erinine now well it conducts. I in in
Material	Light globe	Electric	Conductivity (good
	(on/off?)	Current (Amps)	conductor, poor conductor, insulator)
Nickel (Ni)		(IIIIps)	
Zinc (Zn)			
Glass			
Wood			
Copper (Cu)			
Water (H ₂ O)			
Salt (NaCl)			
Salt water			
Plastic			
Graphite (C)			
steel (99% iron, Fe)			
uestions:		•	
What is a conductor? _			
	 		
What is an insulator? _			
II 4.11 C	41.1		1
How can you tell from	this prac whether	a material is a	conductor or not?
Are all conductors the s	same? Can you ro	unk them? Whic	ch is/are the best conductor(s)?
The an conductors the s	oanic: Can you la	uik uiciii; vviill	in is are the oest conductor(s):



6. How does this experiment show that air is an insulator?