Name	Date	
	- 4.44	

Oxidation Numbers

	that elements contain				ot
positiv	vely charged		and negativ	vely charged	
0	Since the charges ba				have a
When	an atom	or		 _ an	
it		a			
0	Charges can be eithe	er positive or negative	2.		
Atoms	s with a charge are cal	lled	·		
0	If an atom	an elec	ctron, it will devel	op a	
	charge.				
0	If an atom	an electr	on, it will develop	a	
	charge.				
			elec	trons to form	
		ions.			
0	Some metals lose th	eir electrons more ea	isily than others a	nd are said to more	reactive.
0	The	·		and the	
			lose their	valence electrons ve	ery easily and ar
0	As a rule, metals bed	come more reactive t	he		
	you go on the period	dic table and the			
	you go, making fran	cium the most reactiv	e metal.		
Only _		w	/ill	electrons t	o form
		ions.			
0	Nonmetals will gain	enough electrons to	meet the octet ru	le.	
0	The		group only need	ds to gain one valend	ce electron,
	making them the		_		non-metals.
0	As a rule, nonmetals	become more reacti	ve the		
	you go on the period	dic table and the			you go,
		most reactive nonme			
ion Nu	mbers				
The sp	ecific charge an atom	develops is called its	i		
		·		with only 1 val	anco alastron
will		electron and o	levelon a	ovidation and	mhar
All the			م معلم ما	and dayales s	, WITN 2
	e electrons, will				
ine					
		electrons ar	id develop a	charge.	

 So, we aren't going to ass 	ign an oxidation number to the carbon group.
The	, with 5 valence electrons needs 3
	electrons and develop a
charge.	
The	, with 6 valence electrons needs 2
electrons, so they will	electrons and develop a charge
The	, with 7 valence electrons needs 1 electron, so they wi
	electron and develop a charge.