

Oxidation Numbers

Directions

Write on the line to the left of each statement the letter preceding the word or expression that BEST completes the statement. Use Resource: Oxidation Number Rules.

- _____ 1. The oxidation number of fluorine is
 A. Always 0
 B. -1 in all compounds
 C. +1 in all compounds
 D. Equal to the positive charge of all the metal ions in a compound
- _____ 2. The oxidation number of oxygen in most compounds is
 A. -8
 B. -2
 C. 0
 D. +1
- _____ 3. What is the oxidation number of an uncombined element?
 A. -1
 B. 0
 C. +1
 D. 8
- _____ 4. In a compound, the algebraic sum of the oxidation numbers of all atoms equals
 A. 0
 B. 1
 C. 8
 D. The charge on the compound
- _____ 5. The oxidation number of hydrogen in compounds containing metals is
 A. -1
 B. 0
 C. +1
 D. Equal to the charge on the metal ion

Directions: Complete the following chart.

Element	Compound	Oxidation number
Oxygen	H_2O_2	
Carbon	Cl_4	
Hydrogen	KH	
Hydrogen	H_2O	
Fluorine	AlF_3	

Oxidation Numbers (*Answer Key*)

1. B
2. B
3. B
4. A
5. A

Element	Compound	Oxidation number
Oxygen	H_2O_2	-1
Carbon	Cl_4	+4
Hydrogen	KH	-1
Hydrogen	H_2O	+1
Fluorine	AlF_3	-1