

Name \_\_\_\_\_ Period \_\_\_\_\_

Date \_\_\_\_\_

**DETERMINING OXIDATION NUMBERS**

**Determine the oxidation number of the identified ion in each of the following compounds. Please show your reasoning.**  
**OXIDATION NUMBERS must have + or -. For example 3 is not correct; however, +3 or 3+ is correct.**

1. Determine the oxidation number of Mn in $\text{NaMnO}_4$ .	2. Determine the oxidation number of P in $\text{H}_3\text{PO}_4$
3. Determine the oxidation number of Cr in $\text{H}_2\text{CrO}_4$	4. Determine the oxidation number of Al in $\text{AlCl}_3$
5. Determine the oxidation number of Mn in $\text{H}_2\text{MnO}_3$	6. Determine the oxidation number of C in $\text{CS}_2$
7. Determine the oxidation number of Se in $\text{Na}_2\text{SeO}_4$	8. Determine the oxidation number of Mn in $\text{KMnO}_4$
9. Determine the oxidation number of C in $\text{K}_2\text{CO}_3$ .	10. Determine the oxidation number of C in $(\text{NH}_4)_2\text{CO}_3$ .

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<p>11.</p> <p>Determine the oxidation number of Cl in <math>\text{Cl}_2\text{O}_5</math>.</p>	<p>12.</p> <p>Determine the oxidation number of Br in <math>\text{KBrO}_4</math>.</p>
<p>13.</p> <p>Determine the oxidation number of P in <math>\text{H}_4\text{P}_2\text{O}_7</math>.</p>	<p>14.</p> <p>Determine the oxidation number of P in <math>\text{PF}_3</math>.</p>
<p>15.</p> <p>Determine the oxidation number of Co in <math>\text{CoCl}_2</math>.</p>	<p>16.</p> <p>Determine the oxidation number of Fe in <math>\text{Fe}_2\text{O}_3</math>.</p>
<p>17.</p> <p>Determine the oxidation number of Si in <math>\text{SiO}_2</math>.</p>	<p>18.</p> <p>Determine the oxidation number of H in <math>\text{CaH}_2</math>.</p>
<p>19.</p> <p>Determine the oxidation number of P in <math>\text{NaPF}_6</math>.</p>	<p>20.</p> <p>Determine the oxidation number of B in <math>\text{LiBF}_4</math>.</p>
<p>Bonus</p> <p>Determine the oxidation number of P in <math>\text{PF}_6^{3-}</math>.</p>	<p>Bonus</p> <p>Determine the oxidation number of S in <math>\text{SF}_6^{2-}</math>.</p>