

General Science 3200

Worksheet 11: Counting Atoms

ANSWERS

1. Fe_2O_3 Example: <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Fe</td><td>2</td></tr><tr><td>O</td><td>3</td></tr></table>	Type of Atom	# of Atoms	Fe	2	O	3	2. $NaCl$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Na</td><td>1</td></tr><tr><td>Cl</td><td>1</td></tr></table>	Type of Atom	# of Atoms	Na	1	Cl	1	3. $AlCl_3$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Al</td><td>1</td></tr><tr><td>Cl</td><td>3</td></tr></table>	Type of Atom	# of Atoms	Al	1	Cl	3								
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4. Li_3P <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Li</td><td>3</td></tr><tr><td>P</td><td>1</td></tr></table>	Type of Atom	# of Atoms	Li	3	P	1	5. Be_3N_2 <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Be</td><td>3</td></tr><tr><td>N</td><td>2</td></tr></table>	Type of Atom	# of Atoms	Be	3	N	2	6. KNO_3 <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>K</td><td>1</td></tr><tr><td>N</td><td>1</td></tr><tr><td>O</td><td>3</td></tr></table>	Type of Atom	# of Atoms	K	1	N	1	O	3						
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7. $Ca(OH)_2$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Ca</td><td>1</td></tr><tr><td>O</td><td>2</td></tr><tr><td>H</td><td>2</td></tr></table>	Type of Atom	# of Atoms	Ca	1	O	2	H	2	8. $Ba(NO_3)_2$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Ba</td><td>1</td></tr><tr><td>N</td><td>2</td></tr><tr><td>O</td><td>6</td></tr></table>	Type of Atom	# of Atoms	Ba	1	N	2	O	6	9. Ag_2CrO_4 <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Ag</td><td>2</td></tr><tr><td>Cr</td><td>1</td></tr><tr><td>O</td><td>4</td></tr></table>	Type of Atom	# of Atoms	Ag	2	Cr	1	O	4		
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10. $Li_2S_2O_3$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Li</td><td>2</td></tr><tr><td>S</td><td>2</td></tr><tr><td>O</td><td>3</td></tr></table>	Type of Atom	# of Atoms	Li	2	S	2	O	3	11. $Ca_3(PO_4)_2$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Ca</td><td>3</td></tr><tr><td>P</td><td>2</td></tr><tr><td>O</td><td>8</td></tr></table>	Type of Atom	# of Atoms	Ca	3	P	2	O	8	12. $Ca(HCO_3)_2$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Ca</td><td>1</td></tr><tr><td>H</td><td>2</td></tr><tr><td>C</td><td>2</td></tr><tr><td>O</td><td>6</td></tr></table>	Type of Atom	# of Atoms	Ca	1	H	2	C	2	O	6
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13. $(NH_4)_2CO_3$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>N</td><td>2</td></tr><tr><td>H</td><td>8</td></tr><tr><td>C</td><td>1</td></tr><tr><td>O</td><td>3</td></tr></table>	Type of Atom	# of Atoms	N	2	H	8	C	1	O	3	14. $Al_2(SO_4)_3$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Al</td><td>2</td></tr><tr><td>S</td><td>3</td></tr><tr><td>O</td><td>12</td></tr></table>	Type of Atom	# of Atoms	Al	2	S	3	O	12	15. $Mg_3(PO_4)_2$ <table><tr><th>Type of Atom</th><th># of Atoms</th></tr><tr><td>Mg</td><td>3</td></tr><tr><td>P</td><td>2</td></tr><tr><td>O</td><td>8</td></tr></table>	Type of Atom	# of Atoms	Mg	3	P	2	O	8
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