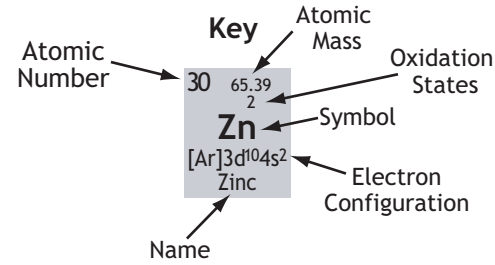


# Periodic Table of the Elements

Period	1	Group 1																Group 13						Group 14		Group 15		Group 16		Group 17		Group 18	
	2	Group 2																Group 13		Group 14		Group 15		Group 16		Group 17		Group 18					
	3	Group 3																Group 13		Group 14		Group 15		Group 16		Group 17		Group 18					
	4	Group 3		Group 4		Group 5		Group 6		Group 7		Group 8		Group 9		Group 10		Group 11		Group 12		Group 13		Group 14		Group 15		Group 16		Group 17		Group 18	
	5	Group 3		Group 4		Group 5		Group 6		Group 7		Group 8		Group 9		Group 10		Group 11		Group 12		Group 13		Group 14		Group 15		Group 16		Group 17		Group 18	
	6	Group 3		Group 4		Group 5		Group 6		Group 7		Group 8		Group 9		Group 10		Group 11		Group 12		Group 13		Group 14		Group 15		Group 16		Group 17		Group 18	
	7	Group 3		Group 4		Group 5		Group 6		Group 7		Group 8		Group 9		Group 10		Group 11		Group 12		Group 13		Group 14		Group 15		Group 16		Group 17		Group 18	



Lanthanoids \*

57 138.9055 3 <b>La</b> [Xe]5d <sup>1</sup> 6s <sup>2</sup> Lanthanum	58 140.116 3,4 <b>Ce</b> [Xe]4f <sup>1</sup> 5d <sup>1</sup> 6s <sup>2</sup> Cerium	59 140.90765 3,4 <b>Pr</b> [Xe]4f <sup>3</sup> 6s <sup>2</sup> Praseodymium	60 144.24 3 <b>Nd</b> [Xe]4f <sup>4</sup> 6s <sup>2</sup> Neodymium	61 (145) 3 <b>Pm</b> [Xe]4f <sup>6</sup> 6s <sup>2</sup> Promethium	62 150.36 3,2 <b>Sm</b> [Xe]4f <sup>6</sup> 6s <sup>2</sup> Samarium	63 151.964 3,2 <b>Eu</b> [Xe]4f <sup>7</sup> 6s <sup>2</sup> Europium	64 157.25 3 <b>Gd</b> [Xe]4f <sup>7</sup> 5d <sup>1</sup> 6s <sup>2</sup> Gadolinium	65 158.92534 3,4 <b>Tb</b> [Xe]4f <sup>9</sup> 6s <sup>2</sup> Terbium	66 162.5 3 <b>Dy</b> [Xe]4f <sup>10</sup> 6s <sup>2</sup> Dysprosium	67 164.93032 3 <b>Ho</b> [Xe]4f <sup>11</sup> 6s <sup>2</sup> Holmium	68 167.259 3 <b>Er</b> [Xe]4f <sup>12</sup> 6s <sup>2</sup> Erbium	69 168.93421 3,2 <b>Tm</b> [Xe]4f <sup>13</sup> 6s <sup>2</sup> Thulium	70 173.04 3,2 <b>Yb</b> [Xe]4f <sup>14</sup> 6s <sup>2</sup> Ytterbium	71 174.967 3 <b>Lu</b> [Xe]4f <sup>14</sup> 5d <sup>1</sup> 6s <sup>2</sup> Lutetium
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Actinoids \*\*

89 (227) 3 <b>Ac</b> [Rn]6d <sup>1</sup> 7s <sup>2</sup> Actinium	90 232.0381 4 <b>Th</b> [Rn]6d <sup>2</sup> 7s <sup>2</sup> Thorium	91 231.03588 5,4 <b>Pa</b> [Rn]5f <sup>2</sup> 6d <sup>1</sup> 7s <sup>2</sup> Protactinium	92 238.02891 6,5,4,3 <b>U</b> [Rn]5f <sup>3</sup> 6d <sup>1</sup> 7s <sup>2</sup> Uranium	93 (237) 6,5,4,3 <b>Np</b> [Rn]5f <sup>4</sup> 6d <sup>1</sup> 7s <sup>2</sup> Neptunium	94 (244) 6,5,4,3 <b>Pu</b> [Rn]5f <sup>6</sup> 7s <sup>2</sup> Plutonium	95 (243) 6,5,4,3 <b>Am</b> [Rn]5f <sup>7</sup> 7s <sup>2</sup> Americium	96 (247) 3 <b>Cm</b> [Rn]5f <sup>7</sup> 6d <sup>1</sup> 7s <sup>2</sup> Curium	97 (247) 4,3 <b>Bk</b> [Rn]5f <sup>9</sup> 7s <sup>2</sup> Berkelium	98 (251) <b>Cf</b> [Rn]5f <sup>10</sup> 7s <sup>2</sup> Californium	99 (252) 3 <b>Es</b> [Rn]5f <sup>11</sup> 7s <sup>2</sup> Einsteinium	100 (257) 3 <b>Fm</b> [Rn]5f <sup>12</sup> 7s <sup>2</sup> Fermium	101 (258) 3 <b>Md</b> [Rn]5f <sup>13</sup> 7s <sup>2</sup> Mendelevium	102 (259) 2,3 <b>No</b> [Rn]5f <sup>14</sup> 7s <sup>2</sup> Nobelium	103 (262) 3 <b>Lr</b> [Rn]5f <sup>14</sup> 6d <sup>1</sup> 7s <sup>2</sup> Lawrencium
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<b>Color Key</b>	Alkali metals	Other metals	Halogens
	Alkaline earth metals	Metalloids	Noble gases
	Transition metals	Non-metals	Rare earth elements