

# ELECTRON CONFIGURATION WORKSHEET

<b>S.NO</b>	<b>ELEMENTS</b>	<b>ABBREVIATED ELECTRON CONFIGURATION</b>
1	HYDROGEN	
2	HELIUM	
3	LITHIUM	
4	BERYLLIUM	
5	BORON	
6	CARBON	
7	NITROGEN	
8	OXYGEN	
9	FLUORINE	
10	NEON	
11	SODIUM	
12	MAGNESIUM	
13	ALUMINIUM	
14	SILICON	
15	PHOSPHORUS	
16	SULFUR	
17	CHLORINE	
18	ARGON	
19	POTASSIUM	
20	CALCIUM	
21	SCANDIUM	
22	TITANIUM	

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S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
23	VANADIUM	
24	CHROMIUM	
25	MANGANESE	
26	IRON	
27	COBALT	
28	NICKEL	
29	COPPER	
30	ZINC	
31	GALLIUM	
32	GERMANIUM	
33	ARSENIC	
34	SELENIUM	
35	BROMINE	
36	KRYPTON	
37	RUBIDIUM	
38	STRONTIUM	
39	YTTRIUM	
40	ZIRCONIUM	
41	NIOBIUM	
42	MOLYBDENUM	
43	TECHNETIUM	
44	RUTHENIUM	

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<b>S.NO</b>	<b>ELEMENTS</b>	<b>ABBREVIATED ELECTRON CONFIGURATION</b>
45	RHODIUM	
46	PALLADIUM	
47	SILVER	
48	CADMIUM	
49	INDIUM	
50	TIN	
51	ANTIMONY	
52	TELLURIUM	
53	IODINE	
54	XENON	
55	CESIUM	
56	BARIUM	
57	LANTHANUM	
58	CERIUM	
59	PRASEODYMIUM	
60	NEODYMIUM	
61	PROMETHIUM	
62	SAMARIUM	
63	EUROPIUM	
64	GADOLINIUM	
65	TERBIUM	
66	DYSPROSIUM	

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<i>S.NO</i>	<i>ELEMENTS</i>	<i>ABBREVIATED ELECTRON CONFIGURATION</i>
67	HOLMIUM	
68	ERBIUM	
69	THULIUM	
70	YTTERBIUM	
71	LUTETIUM	
72	HAFNIUM	
73	TANTALUM	
74	TUNGSTEN	
75	RHENIUM	
76	OSMIUM	
77	IRIDIUM	
78	PLATINUM	
79	GOLD	
80	MERCURY	
81	THALLIUM	
82	LEAD	
83	BISMUTH	
84	POLONIUM	
85	ASTATINE	
86	RADON	
87	FRANCIUM	
88	RADIUM	

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# ELECTRON CONFIGURATION WORKSHEET

<i>S.NO</i>	<i>ELEMENTS</i>	<i>ABBREVIATED ELECTRON CONFIGURATION</i>
<b>89</b>	ACTINIUM	
<b>90</b>	THORIUM	
<b>91</b>	PROTACTINIUM	
<b>92</b>	URANIUM	
<b>93</b>	NEPTUNIUM	
<b>94</b>	PLUTONIUM	
<b>95</b>	AMERICIUM	
<b>96</b>	CURIUM	
<b>97</b>	BERKELIUM	
<b>98</b>	CALIFORNIUM	
<b>99</b>	EINSTEINIUM	
<b>100</b>	FERMIUM	
<b>101</b>	MENDELEVIUM	
<b>102</b>	NOBELIUM	
<b>103</b>	LAWRENCIUM	
<b>104</b>	RUTHERFORDIUM	
<b>105</b>	DUBNIUM	
<b>106</b>	SEABORGIUM	
<b>107</b>	BOHRIUM	
<b>108</b>	HASSIUM	
<b>109</b>	MEITNERIUM	
<b>110</b>	DARMSTADIUM	

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# ELECTRON CONFIGURATION WORKSHEET

<b>S.NO</b>	<b>ELEMENTS</b>	<b>ABBREVIATED ELECTRON CONFIGURATION</b>
<b>111</b>	ROENTGENIUM	
<b>112</b>	COPERNIUM	
<b>113</b>	NIHONIUM	
<b>114</b>	FLEROVIUM	
<b>115</b>	MOSCOVIUM	
<b>116</b>	LIVERMORIUM	
<b>117</b>	TENNESSINE	
<b>118</b>	OGANESSON	

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# ELECTRON CONFIGURATION WORKSHEET -ANSWER

S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
1	HYDROGEN	$1s^1$
2	HELIUM	$1s^2$
3	LITHIUM	$[\text{He}] 2s^1$
4	BERYLLIUM	$[\text{He}] 2s^2$
5	BORON	$[\text{He}] 2s^2 2p^1$
6	CARBON	$[\text{He}] 2s^2 2p^2$
7	NITROGEN	$[\text{He}] 2s^2 2p^3$
8	OXYGEN	$[\text{He}] 2s^2 2p^4$
9	FLUORINE	$[\text{He}] 2s^2 2p^5$
10	NEON	$[\text{He}] 2s^2 2p^6$
11	SODIUM	$[\text{Ne}] 3s^1$
12	MAGNESIUM	$[\text{Ne}] 3s^2$
13	ALUMINIUM	$[\text{Ne}] 3s^2 3p^1$
14	SILICON	$[\text{Ne}] 3s^2 3p^2$
15	PHOSPHORUS	$[\text{Ne}] 3s^2 3p^3$
16	SULFUR	$[\text{Ne}] 3s^2 3p^4$
17	CHLORINE	$[\text{Ne}] 3s^2 3p^5$
18	ARGON	$[\text{Ne}] 3s^2 3p^6$
19	POTASSIUM	$[\text{Ar}] 4s^1$
20	CALCIUM	$[\text{Ar}] 4s^2$
21	SCANDIUM	$[\text{Ar}] 3d^1 4s^2$
22	TITANIUM	$[\text{Ar}] 3d^2 4s^2$

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S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
23	VANADIUM	[Ar] 3d <sup>3</sup> 4s <sup>2</sup>
24	CHROMIUM	[Ar] 3d <sup>5</sup> 4s <sup>1</sup>
25	MANGANESE	[Ar] 3d <sup>5</sup> 4s <sup>2</sup>
26	IRON	[Ar] 3d <sup>6</sup> 4s <sup>2</sup>
27	COBALT	[Ar] 3d <sup>7</sup> 4s <sup>2</sup>
28	NICKEL	[Ar] 3d <sup>8</sup> 4s <sup>2</sup>
29	COPPER	[Ar] 3d <sup>10</sup> 4s <sup>1</sup>
30	ZINC	[Ar] 3d <sup>10</sup> 4s <sup>2</sup>
31	GALLIUM	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>1</sup>
32	GERMANIUM	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>2</sup>
33	ARSENIC	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>3</sup>
34	SELENIUM	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>4</sup>
35	BROMINE	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>5</sup>
36	KRYPTON	[Ar] 3d <sup>10</sup> 4s <sup>2</sup> 4p <sup>6</sup>
37	RUBIDIUM	[Kr] 5s <sup>1</sup>
38	STRONTIUM	[Kr] 5s <sup>2</sup>
39	YTTRIUM	[Kr] 4d <sup>1</sup> 5s <sup>2</sup>
40	ZIRCONIUM	[Kr] 4d <sup>2</sup> 5s <sup>2</sup>
41	NIOBIUM	[Kr] 4d <sup>4</sup> 5s <sup>1</sup>
42	MOLYBDENUM	[Kr] 4d <sup>5</sup> 5s <sup>1</sup>
43	TECHNETIUM	[Kr] 4d <sup>5</sup> 5s <sup>2</sup>
44	RUTHENIUM	[Kr] 4d <sup>7</sup> 5s <sup>1</sup>

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S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
45	RHODIUM	[Kr] 4d <sup>8</sup> 5s <sup>1</sup>
46	PALLADIUM	[Kr] 4d <sup>10</sup>
47	SILVER	[Kr] 4d <sup>10</sup> 5s <sup>1</sup>
48	CADMIUM	[Kr] 4d <sup>10</sup> 5s <sup>2</sup>
49	INDIUM	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>1</sup>
50	TIN	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>2</sup>
51	ANTIMONY	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>3</sup>
52	TELLURIUM	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>4</sup>
53	IODINE	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>5</sup>
54	XENON	[Kr] 4d <sup>10</sup> 5s <sup>2</sup> 5p <sup>6</sup>
55	CESIUM	[Xe] 6s <sup>1</sup>
56	BARIUM	[Xe] 6s <sup>2</sup>
57	LANTHANUM	[Xe] 5d <sup>1</sup> 6s <sup>2</sup>
58	CERIUM	[Xe] 4f <sup>1</sup> 5d <sup>1</sup> 6s <sup>2</sup>
59	PRASEODYMIUM	[Xe] 4f <sup>3</sup> 6s <sup>2</sup>
60	NEODYMIUM	[Xe] 4f <sup>4</sup> 6s <sup>2</sup>
61	PROMETHIUM	[Xe] 4f <sup>5</sup> 6s <sup>2</sup>
62	SAMARIUM	[Xe] 4f <sup>6</sup> 6s <sup>2</sup>
63	EUROPIUM	[Xe] 4f <sup>7</sup> 6s <sup>2</sup>
64	GADOLINIUM	[Xe] 4f <sup>7</sup> 5d <sup>1</sup> 6s <sup>2</sup>
65	TERBIUM	[Xe] 4f <sup>9</sup> 6s <sup>2</sup>
66	DYSPROSIUM	[Xe] 4f <sup>10</sup> 6s <sup>2</sup>

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S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
67	HOLMIUM	[Xe] 4f <sup>11</sup> 6s <sup>2</sup>
68	ERBIUM	[Xe] 4f <sup>12</sup> 6s <sup>2</sup>
69	THULIUM	[Xe] 4f <sup>13</sup> 6s <sup>2</sup>
70	YTTERBIUM	[Xe] 4f <sup>14</sup> 6s <sup>2</sup>
71	LUTETIUM	[Xe] 4f <sup>14</sup> 5d <sup>1</sup> 6s <sup>2</sup>
72	HAFNIUM	[Xe] 4f <sup>14</sup> 5d <sup>2</sup> 6s <sup>2</sup>
73	TANTALUM	[Xe] 4f <sup>14</sup> 5d <sup>3</sup> 6s <sup>2</sup>
74	TUNGSTEN	[Xe] 4f <sup>14</sup> 5d <sup>4</sup> 6s <sup>2</sup>
75	RHENIUM	[Xe] 4f <sup>14</sup> 5d <sup>5</sup> 6s <sup>2</sup>
76	OSMIUM	[Xe] 4f <sup>14</sup> 5d <sup>6</sup> 6s <sup>2</sup>
77	IRIDIUM	[Xe] 4f <sup>14</sup> 5d <sup>7</sup> 6s <sup>2</sup>
78	PLATINUM	[Xe] 4f <sup>14</sup> 5d <sup>9</sup> 6s <sup>1</sup>
79	GOLD	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>1</sup>
80	MERCURY	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup>
81	THALLIUM	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>1</sup>
82	LEAD	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>2</sup>
83	BISMUTH	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>3</sup>
84	POLONIUM	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>4</sup>
85	ASTATINE	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>5</sup>
86	RADON	[Xe] 4f <sup>14</sup> 5d <sup>10</sup> 6s <sup>2</sup> 6p <sup>6</sup>
87	FRANCIUM	[Rn] 7s <sup>1</sup>
88	RADIUM	[Rn] 7s <sup>2</sup>

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S.NO	ELEMENTS	ABBREVIATED ELECTRON CONFIGURATION
89	ACTINIUM	[Rn] 6d <sup>1</sup> 7s <sup>2</sup>
90	THORIUM	[Rn] 6d <sup>2</sup> 7s <sup>2</sup>
91	PROTACTINIUM	[Rn] 5f <sup>2</sup> 6d <sup>1</sup> 7s <sup>2</sup>
92	URANIUM	[Rn] 5f <sup>3</sup> 6d <sup>1</sup> 7s <sup>2</sup>
93	NEPTUNIUM	[Rn] 5f <sup>4</sup> 6d <sup>1</sup> 7s <sup>2</sup>
94	PLUTONIUM	[Rn] 5f <sup>6</sup> 7s <sup>2</sup>
95	AMERICIUM	[Rn] 5f <sup>7</sup> 7s <sup>2</sup>
96	CURIUM	[Rn] 5f <sup>7</sup> 6d <sup>1</sup> 7s <sup>2</sup>
97	BERKELIUM	[Rn] 5f <sup>9</sup> 7s <sup>2</sup>
98	CALIFORNIUM	[Rn] 5f <sup>10</sup> 7s <sup>2</sup>
99	EINSTEINIUM	[Rn] 5f <sup>11</sup> 7s <sup>2</sup>
100	FERMIUM	[Rn] 5f <sup>12</sup> 7s <sup>2</sup>
101	MENDELEVIUM	[Rn] 5f <sup>13</sup> 7s <sup>2</sup>
102	NOBELIUM	[Rn] 5f <sup>14</sup> 7s <sup>2</sup>
103	LAWRENCIUM	[Rn] 5f <sup>14</sup> 7s <sup>2</sup> 7p <sup>1</sup>
104	RUTHERFORDIUM	[Rn] 5f <sup>14</sup> 6d <sup>2</sup> 7s <sup>2</sup>
105	DUBNIUM	[Rn] 5f <sup>14</sup> 6d <sup>3</sup> 7s <sup>2</sup>
106	SEABORGIUM	[Rn] 5f <sup>14</sup> 6d <sup>4</sup> 7s <sup>2</sup>
107	BOHRIUM	[Rn] 5f <sup>14</sup> 6d <sup>5</sup> 7s <sup>2</sup>
108	HASSIUM	[Rn] 5f <sup>14</sup> 6d <sup>6</sup> 7s <sup>2</sup>
109	MEITNERIUM	[Rn] 5f <sup>14</sup> 6d <sup>7</sup> 7s <sup>2</sup>
110	DARMSTADIUM	[Rn] 5f <sup>14</sup> 6d <sup>8</sup> 7s <sup>2</sup>

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<b>111</b>	ROENTGENIUM	$[\text{Rn}] 5f^{14} 6d^9 7s^2$
<b>112</b>	COPERNIUM	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2$
<b>113</b>	NIHONIUM	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^1$
<b>114</b>	FLEROVIUM	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^2$
<b>115</b>	MOSCOVIUM	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^3$
<b>116</b>	LIVERMORIUM	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^4$
<b>117</b>	TENNESSINE	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^5$
<b>118</b>	OGANESSON	$[\text{Rn}] 5f^{14} 6d^{10} 7s^2 7p^6$

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