

| Period        | Gruppe                               |                                      |   |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  |  |                                       |                                       |  |                                      |                                      |
|---------------|--------------------------------------|--------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|--|--|---------------------------------------|---------------------------------------|--|--------------------------------------|--------------------------------------|
|               | 1                                    | 2                                    |   |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  | 3                                      | 4                                     | 5                                     | 6                                      | 7                                    | 8                                    |
| 1             | <sup>1</sup> <sub>1</sub> H<br>1s    |                                      |   |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  |  |                                       |                                       |  |                                      | <sup>2</sup> <sub>4</sub> He<br>1s   |
| 2             | <sup>3</sup> <sub>7</sub> Li<br>2s   | <sup>4</sup> <sub>2</sub> Be<br>2s   |   |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  | <sup>5</sup> <sub>2</sub> B<br>2p      | <sup>6</sup> <sub>2</sub> C<br>2p     | <sup>7</sup> <sub>2</sub> N<br>2p     | <sup>8</sup> <sub>2</sub> O<br>2p      | <sup>9</sup> <sub>2</sub> F<br>2p    | <sup>10</sup> <sub>2</sub> Ne<br>2p  |
| 3             | <sup>11</sup> <sub>3</sub> Na<br>3s  | <sup>12</sup> <sub>3</sub> Mg<br>3s  |   |                                       |                                       |                                       |                                       |                                       |                                       |  |  |  | <sup>13</sup> <sub>3</sub> Al<br>3p    | <sup>14</sup> <sub>3</sub> Si<br>3p   | <sup>15</sup> <sub>3</sub> P<br>3p    | <sup>16</sup> <sub>3</sub> S<br>3p     | <sup>17</sup> <sub>3</sub> Cl<br>3p  | <sup>18</sup> <sub>3</sub> Ar<br>3p  |
| 4             | <sup>19</sup> <sub>4</sub> K<br>4s   | <sup>20</sup> <sub>4</sub> Ca<br>4s  | <sup>21</sup> <sub>3d</sub> Sc<br>3d    | <sup>22</sup> <sub>3d</sub> Ti<br>3d  | <sup>23</sup> <sub>3d</sub> V<br>3d   | <sup>24</sup> <sub>3d</sub> Cr<br>3d  | <sup>25</sup> <sub>3d</sub> Mn<br>3d  | <sup>26</sup> <sub>3d</sub> Fe<br>3d  | <sup>27</sup> <sub>3d</sub> Co<br>3d  | <sup>28</sup> <sub>3d</sub> Ni<br>3d   | <sup>29</sup> <sub>3d</sub> Cu<br>3d   | <sup>30</sup> <sub>3d</sub> Zn<br>3d   | <sup>31</sup> <sub>4p</sub> Ga<br>4p   | <sup>32</sup> <sub>4p</sub> Ge<br>4p  | <sup>33</sup> <sub>4p</sub> As<br>4p  | <sup>34</sup> <sub>4p</sub> Se<br>4p   | <sup>35</sup> <sub>4p</sub> Br<br>4p | <sup>36</sup> <sub>4p</sub> Kr<br>4p |
| 5             | <sup>37</sup> <sub>5s</sub> Rb<br>5s | <sup>38</sup> <sub>5s</sub> Sr<br>5s | <sup>39</sup> <sub>4d</sub> Y<br>4d     | <sup>40</sup> <sub>4d</sub> Zr<br>4d  | <sup>41</sup> <sub>4d</sub> Nb<br>4d  | <sup>42</sup> <sub>4d</sub> Mo<br>4d  | <sup>43</sup> <sub>4d</sub> Tc<br>4d  | <sup>44</sup> <sub>4d</sub> Ru<br>4d  | <sup>45</sup> <sub>4d</sub> Rh<br>4d  | <sup>46</sup> <sub>4d</sub> Pd<br>4d   | <sup>47</sup> <sub>4d</sub> Ag<br>4d   | <sup>48</sup> <sub>4d</sub> Cd<br>4d   | <sup>49</sup> <sub>5p</sub> In<br>5p   | <sup>50</sup> <sub>5p</sub> Sn<br>5p  | <sup>51</sup> <sub>5p</sub> Sb<br>5p  | <sup>52</sup> <sub>5p</sub> Te<br>5p   | <sup>53</sup> <sub>5p</sub> I<br>5p  | <sup>54</sup> <sub>5p</sub> Xe<br>5p |
| 6             | <sup>55</sup> <sub>6s</sub> Cs<br>6s | <sup>56</sup> <sub>6s</sub> Ba<br>6s | <sup>71</sup> <sub>5d</sub> Lu*<br>5d   | <sup>58</sup> <sub>5d</sub> Hf<br>5d  | <sup>59</sup> <sub>5d</sub> Ta<br>5d  | <sup>60</sup> <sub>5d</sub> W<br>5d   | <sup>61</sup> <sub>5d</sub> Re<br>5d  | <sup>62</sup> <sub>5d</sub> Os<br>5d  | <sup>63</sup> <sub>5d</sub> Ir<br>5d  | <sup>78</sup> <sub>5d</sub> Pt<br>5d   | <sup>79</sup> <sub>5d</sub> Au<br>5d   | <sup>80</sup> <sub>5d</sub> Hg<br>5d   | <sup>81</sup> <sub>6p</sub> Tl<br>6p   | <sup>82</sup> <sub>6p</sub> Pb<br>6p  | <sup>83</sup> <sub>6p</sub> Bi<br>6p  | <sup>84</sup> <sub>6p</sub> Po<br>6p   | <sup>85</sup> <sub>6p</sub> At<br>6p | <sup>86</sup> <sub>6p</sub> Rn<br>6p |
| 7             | <sup>87</sup> <sub>7s</sub> Fr<br>7s | <sup>88</sup> <sub>7s</sub> Ra<br>7s | <sup>103</sup> <sub>6d</sub> Lr**<br>6d | <sup>104</sup> <sub>6d</sub> Rf<br>6d | <sup>105</sup> <sub>6d</sub> Db<br>6d | <sup>106</sup> <sub>6d</sub> Sg<br>6d | <sup>107</sup> <sub>6d</sub> Bh<br>6d | <sup>108</sup> <sub>6d</sub> Hs<br>6d | <sup>109</sup> <sub>6d</sub> Mt<br>6d | <sup>110</sup> <sub>6d</sub> Uun<br>6d | <sup>111</sup> <sub>6d</sub> Uuu<br>6d | <sup>112</sup> <sub>6d</sub> UUb<br>6d | <sup>114</sup> <sub>6d</sub> Uuq<br>6d |                                       |                                       | <sup>116</sup> <sub>6d</sub> Uuh<br>6d |                                      |                                      |
| *Lanthaniden: |                                      |                                      | <sup>57</sup> <sub>4f</sub> La<br>4f    | <sup>58</sup> <sub>4f</sub> Ce<br>4f  | <sup>59</sup> <sub>4f</sub> Pr<br>4f  | <sup>60</sup> <sub>4f</sub> Nd<br>4f  | <sup>61</sup> <sub>4f</sub> Pm<br>4f  | <sup>62</sup> <sub>4f</sub> Sm<br>4f  | <sup>63</sup> <sub>4f</sub> Eu<br>4f  | <sup>64</sup> <sub>4f</sub> Gd<br>4f   | <sup>65</sup> <sub>4f</sub> Tb<br>4f   | <sup>66</sup> <sub>4f</sub> Dy<br>4f   | <sup>67</sup> <sub>4f</sub> Ho<br>4f   | <sup>68</sup> <sub>4f</sub> Er<br>4f  | <sup>69</sup> <sub>4f</sub> Tm<br>4f  | <sup>70</sup> <sub>4f</sub> Yb<br>4f   |                                      |                                      |
| **Aktiniden:  |                                      |                                      | <sup>89</sup> <sub>5f</sub> Ac<br>5f    | <sup>90</sup> <sub>5f</sub> Th<br>5f  | <sup>91</sup> <sub>5f</sub> Pa<br>5f  | <sup>92</sup> <sub>5f</sub> U<br>5f   | <sup>93</sup> <sub>5f</sub> Np<br>5f  | <sup>94</sup> <sub>5f</sub> Pu<br>5f  | <sup>95</sup> <sub>5f</sub> Am<br>5f  | <sup>96</sup> <sub>5f</sub> Cm<br>5f   | <sup>97</sup> <sub>5f</sub> Bk<br>5f   | <sup>98</sup> <sub>5f</sub> Cf<br>5f   | <sup>99</sup> <sub>5f</sub> Es<br>5f   | <sup>100</sup> <sub>5f</sub> Fm<br>5f | <sup>101</sup> <sub>5f</sub> Md<br>5f | <sup>102</sup> <sub>5f</sub> No<br>5f  |                                      |                                      |