

(10 pt) (Chp 6) Fill in the table with whatever is missing (name or formula).

| NAME | FORMULA | NAME | FORMULA |
|----------------|------------------|-------------------|------------------------------|
| sodium | Na | ammonium ion | NH ₄ ⁺ |
| sodium ion | Na ⁺ | calcium | Ca ²⁺ |
| Magnesium ion | Mg ²⁺ | Aluminum ion | Al ³⁺ |
| Copper (I) ion | Cu ⁺ | Lead (IV) ion | Pb ⁴⁺ |
| iron (II) ion | Fe ²⁺ | chromium(III) ion | Cr ³⁺ |

PERIODIC CHART OF THE ELEMENTS

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|--------------------|---------------------|--------------------|--------------------|-------------------|--------------------|--------------------|
| 1 H 1.00797 | | | | | | | | | | | | | | | | | 1 H 1.00797 | 2 He 4.0026 | | | | | |
| 3 Li 6.939 | 4 Be 9.0122 | | | | | | | | | | | | | | | | | 5 B 10.811 | 6 C 12.0112 | 7 N 14.0067 | 8 O 15.9994 | 9 F 18.9984 | 10 Ne 20.189 |
| 11 Na 22.9897 | 12 Mg 24.312 | | | | | | | | | | | | | | | | | 13 Al 26.9815 | 14 Si 28.086 | 15 P 30.9738 | 16 S 32.064 | 17 Cl 35.453 | 18 Ar 39.948 |
| 19 K 39.102 | 20 Ca 40.08 | 21 Sc 44.956 | 22 Ti 47.88 | 23 V 50.942 | 24 Cr 51.996 | 25 Mn 54.938 | 26 Fe 55.847 | 27 Co 58.9332 | 28 Ni 58.71 | 29 Cu 63.54 | 30 Zn 65.37 | 31 Ga 69.72 | 32 Ge 72.59 | 33 As 74.9216 | 34 Se 78.96 | 35 Br 79.909 | 36 Kr 83.80 | | | | | | |
| 37 Rb 85.47 | 38 Sr 87.62 | 39 Y 88.905 | 40 Zr 91.22 | 41 Nb 92.906 | 42 Mo 95.94 | 43 Tc (99) | 44 Ru 101.07 | 45 Rh 102.905 | 46 Pd 106.4 | 47 Ag 107.870 | 48 Cd 112.40 | 49 In 114.82 | 50 Sn 118.69 | 51 Sb 121.75 | 52 Te 127.60 | 53 I 126.904 | 54 Xe 131.80 | | | | | | |
| 55 Cs 132.905 | 56 Ba 137.34 | *57 La 138.91 | 72 Hf 178.49 | 73 Ta 180.948 | 74 W 183.85 | 75 Re 186.2 | 76 Os 190.2 | 77 Ir 192.2 | 78 Pt 195.09 | 79 Au 196.967 | 80 Hg 200.59 | 81 Tl 204.37 | 82 Pb 207.19 | 83 Bi 208.980 | 84 Po (210) | 85 At (210) | 86 Rn (222) | | | | | | |
| 87 Fr (223) | 88 Ra (226) | †89 Ac (227) | 104 Rf (261) | 105 Db (262) | 106 Sg (266) | 107 Bh (262) | 108 Hs (265) | 109 Mt (266) | 110 ? (271) | 111 ? (272) | 112 ? (277) | | | | | | | | | | | | |

* Lanthanide Series

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|--------------------|---------------------|--------------------|-------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|
| 58 Ce 140.12 | 59 Pr 140.907 | 60 Nd 144.24 | 61 Pm (147) | 62 Sm 150.35 | 63 Eu 151.96 | 64 Gd 157.25 | 65 Tb 158.924 | 66 Dy 162.50 | 67 Ho 164.930 | 68 Er 167.26 | 69 Tm 168.934 | 70 Yb 173.04 | 71 Lu 174.97 |
|--------------------|---------------------|--------------------|-------------------|--------------------|--------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|--------------------|

† Actinide Series

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|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|
| 90 Th 232.038 | 91 Pa (231) | 92 U 238.03 | 93 Np (237) | 94 Pu (242) | 95 Am (243) | 96 Cm (247) | 97 Bk (247) | 98 Cf (249) | 99 Es (254) | 100 Fm (253) | 101 Md (258) | 102 No (258) | 103 Lr (257) |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|