

# บทเรียนสำเร็จรูป



ชุด โครงสร้างอะตอมและตารางธาตุ

ระดับชั้นมัธยมศึกษาปีที่ 4

รายวิชา ว31221 เคมี 1

## เล่มที่ 1

เรื่อง แบบจำลองอะตอมของดอลตันและทอมสัน

### THE PERIODIC TABLE

|                                    |                                 |                                 |                                   |                                 |                                  |                                 |                                   |                                    |                                  |
|------------------------------------|---------------------------------|---------------------------------|-----------------------------------|---------------------------------|----------------------------------|---------------------------------|-----------------------------------|------------------------------------|----------------------------------|
| 1<br>H<br>1.008<br>Hydrogen        | 2<br>He<br>4.003<br>Helium      | 3<br>Li<br>6.941<br>Lithium     | 4<br>Be<br>9.012<br>Beryllium     | 5<br>B<br>10.81<br>Boron        | 6<br>C<br>12.01<br>Carbon        | 7<br>N<br>14.01<br>Nitrogen     | 8<br>O<br>16.00<br>Oxygen         | 9<br>F<br>19.00<br>Fluorine        | 10<br>Ne<br>20.18<br>Neon        |
| 11<br>Na<br>22.99<br>Sodium        | 12<br>Mg<br>24.31<br>Magnesium  | 13<br>Al<br>26.98<br>Aluminum   | 14<br>Si<br>28.09<br>Silicon      | 15<br>P<br>30.97<br>Phosphorus  | 16<br>S<br>32.07<br>Sulfur       | 17<br>Cl<br>35.45<br>Chlorine   | 18<br>Ar<br>39.95<br>Argon        | 19<br>K<br>39.10<br>Potassium      | 20<br>Ca<br>40.08<br>Calcium     |
| 21<br>Sc<br>44.96<br>Scandium      | 22<br>Ti<br>47.88<br>Titanium   | 23<br>V<br>50.94<br>Vanadium    | 24<br>Cr<br>52.00<br>Chromium     | 25<br>Mn<br>54.94<br>Manganese  | 26<br>Fe<br>55.85<br>Iron        | 27<br>Co<br>58.93<br>Cobalt     | 28<br>Ni<br>58.69<br>Nickel       | 29<br>Cu<br>63.55<br>Copper        | 30<br>Zn<br>65.38<br>Zinc        |
| 31<br>Ga<br>69.72<br>Gallium       | 32<br>Ge<br>72.64<br>Germanium  | 33<br>As<br>74.92<br>Arsenic    | 34<br>Se<br>78.96<br>Selenium     | 35<br>Br<br>79.90<br>Bromine    | 36<br>Kr<br>83.80<br>Krypton     | 37<br>Rb<br>85.47<br>Rubidium   | 38<br>Sr<br>87.62<br>Strontium    | 39<br>Y<br>88.91<br>Yttrium        | 40<br>Zr<br>91.22<br>Zirconium   |
| 41<br>Nb<br>92.91<br>Niobium       | 42<br>Mo<br>95.94<br>Molybdenum | 43<br>Tc<br>98.91<br>Technetium | 44<br>Ru<br>101.07<br>Ruthenium   | 45<br>Rh<br>102.91<br>Rhodium   | 46<br>Pd<br>106.42<br>Palladium  | 47<br>Ag<br>107.87<br>Silver    | 48<br>Cd<br>112.41<br>Cadmium     | 49<br>In<br>114.82<br>Indium       | 50<br>Sn<br>118.71<br>Tin        |
| 51<br>Sb<br>121.76<br>Antimony     | 52<br>Te<br>127.60<br>Tellurium | 53<br>I<br>126.91<br>Iodine     | 54<br>Xe<br>131.29<br>Xenon       | 55<br>Cs<br>132.91<br>Cesium    | 56<br>Ba<br>137.33<br>Barium     | 57<br>La<br>138.91<br>Lanthanum | 58<br>Ce<br>140.12<br>Cerium      | 59<br>Pr<br>140.91<br>Praseodymium | 60<br>Nd<br>144.24<br>Neodymium  |
| 61<br>Pm<br>144.91<br>Promethium   | 62<br>Sm<br>150.36<br>Samarium  | 63<br>Eu<br>151.96<br>Europium  | 64<br>Gd<br>157.25<br>Gadolinium  | 65<br>Tb<br>158.93<br>Terbium   | 66<br>Dy<br>162.50<br>Dysprosium | 67<br>Ho<br>164.93<br>Holmium   | 68<br>Er<br>167.26<br>Erbium      | 69<br>Tm<br>168.93<br>Thulium      | 70<br>Yb<br>173.05<br>Ytterbium  |
| 71<br>Lu<br>174.97<br>Lutetium     | 72<br>Hf<br>178.49<br>Hafnium   | 73<br>Ta<br>180.95<br>Tantalum  | 74<br>W<br>183.85<br>Tungsten     | 75<br>Re<br>186.21<br>Rhenium   | 76<br>Os<br>190.23<br>Osmium     | 77<br>Ir<br>192.22<br>Iridium   | 78<br>Pt<br>195.08<br>Platinum    | 79<br>Au<br>196.97<br>Gold         | 80<br>Hg<br>200.59<br>Mercury    |
| 81<br>Tl<br>204.38<br>Thallium     | 82<br>Pb<br>207.2<br>Lead       | 83<br>Bi<br>208.98<br>Bismuth   | 84<br>Po<br>209<br>Polonium       | 85<br>At<br>210<br>Astatine     | 86<br>Rn<br>222<br>Radon         | 87<br>Fr<br>223<br>Francium     | 88<br>Ra<br>226<br>Radium         | 89<br>Ac<br>227<br>Actinium        | 90<br>Th<br>232.04<br>Thorium    |
| 91<br>Pa<br>231.04<br>Protactinium | 92<br>U<br>238.03<br>Uranium    | 93<br>Np<br>237.05<br>Neptunium | 94<br>Pu<br>244.06<br>Plutonium   | 95<br>Am<br>243.06<br>Americium | 96<br>Cm<br>247.07<br>Curium     | 97<br>Bk<br>247.07<br>Berkelium | 98<br>Cf<br>251.08<br>Californium | 99<br>Es<br>252.08<br>Einsteinium  | 100<br>Fm<br>257.10<br>Fermium   |
| 101<br>Md<br>288<br>Mendelevium    | 102<br>No<br>289<br>Nobelium    | 103<br>Lr<br>262<br>Lawrencium  | 104<br>Rf<br>261<br>Rutherfordium | 105<br>Db<br>262<br>Dubnium     | 106<br>Sg<br>266<br>Seaborgium   | 107<br>Bh<br>264<br>Bohrium     | 108<br>Hs<br>277<br>Hassium       | 109<br>Mt<br>268<br>Meitnerium     | 110<br>Ds<br>271<br>Darmstadtium |
| 111<br>Rg<br>272<br>Roentgenium    | 112<br>Cn<br>285<br>Copernicium | 113<br>Nh<br>284<br>Nihonium    | 114<br>Fl<br>289<br>Flerovium     | 115<br>Mc<br>288<br>Moscovium   | 116<br>Lv<br>293<br>Livermorium  | 117<br>Ts<br>294<br>Tennessine  | 118<br>Og<br>294<br>Oganesson     | 119<br>Uu<br>289<br>Ununennium     | 120<br>Uub<br>289<br>Unbibium    |

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