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| Science 9 | Unit B |
| Transition Metals and Molecular Compounds | 84 Mins |

Review Notebook Quiz

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| Transition Metals* Have more then one charge
* Labeled with Roman Numerals

Formula to WordsFeCl2 -> Fe? 2Cl- ? 2- 2+Iron (II) ChlorideYou do not have to name other metals in this way…. CaCl2 is Calcium Chloride NOT Calcium (II) ChlorideWords to FormulaCopper (I) OxideCu1+ O2-2Cu1+ 1O2-Cu2OWork for 15 MinsQuick Method Again1. Write the two Ions, **Metal First**
2. **“crisscross”** the charges
3. Rewrite the Formula

Ca2+ Cl-Ca1 Cl2CaCl2Work for 15 Mins**Molecular Compounds**Two Non-Metals Combining* Share of electrons
* Insulators (poor conductors)
* Low Melting point

Sharing results in MANY different combinationsPrefixes used to the different combinations

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| --- | --- |
| # of Atoms | Prefix |
| 1 | Mono |
| 2 | Di |
| 3 | Tri |
| 4 | Tetra |
| 5 | Penta |
| 6 | Hexa |
| 7 | Hapta |

**Molecular v. Ionic**

|  |  |
| --- | --- |
| Ionic | Molecular |
| High Boiling PointMetals and Non-MetalsConducts ElectricityGive or Take e- (Ionic) | Low Boiling PointOnly Non-metalsInsulatorsShare e- (Covalent) |

Work for rest of period |  Co Hg Co2+ Co3+ Hg+ Hg2+Cobalt (II) Cobalt (III) Mercury (I) (II)IonHgCl -> Hg? Cl- ? 1- 1+Mercury (I) ChlorideCobalt (II) hydroxideCo2+ OH­-Co2+ 2(OH2-)Co(OH)2Carbon Dioxide CO2Nitrogen Monoxide NOFirst element only get a prefix if there is more then 1Carbon Dioxide and Carbon MonoxideCO2 CON2O4 Dinitrogen Tetraoxide |