

Bell Ringer #28:

**Socrative Room Name:
LEVEL70WARRIOR**

Covalent Bonds

<http://drmoad.weebly.com/>

Agenda

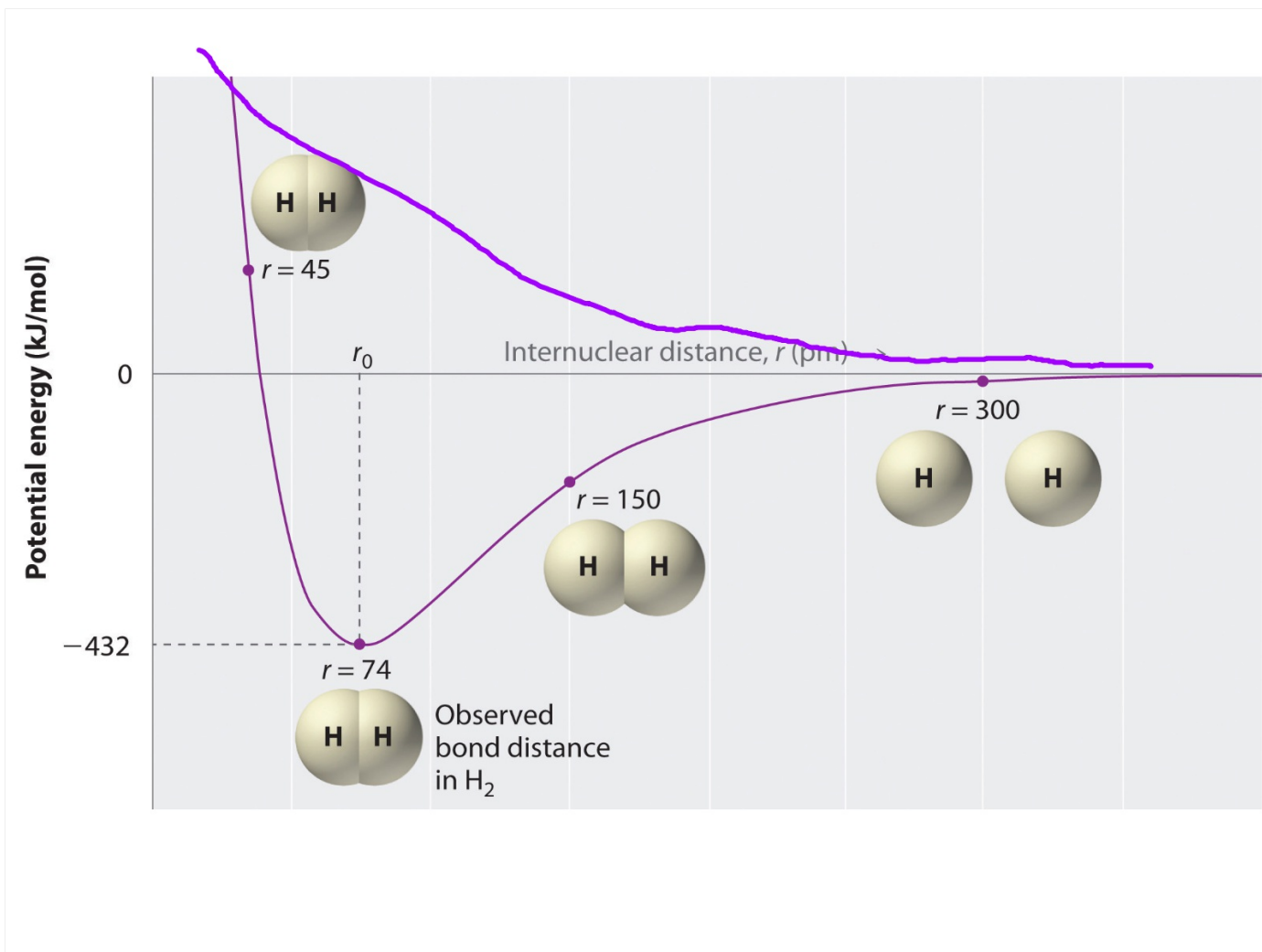
Bell Ringer
Covalent Compounds
Exit Ticket



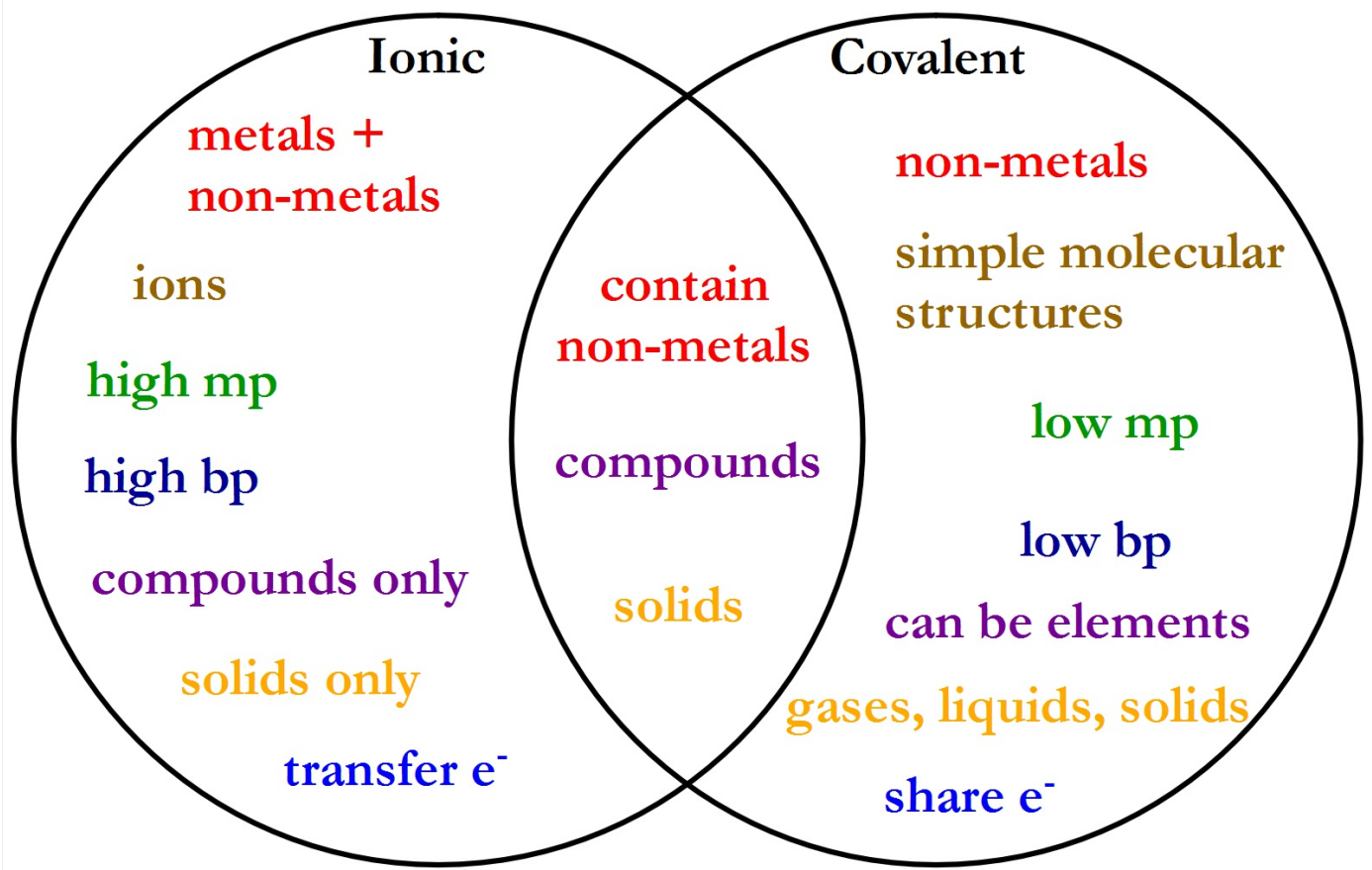
<http://www.dhmo.org/>

**Take 5 minutes to research
the content on this website**

List 5 facts about the chemical dhmo.



Ionic vs. Covalent Compounds



Covalent Compounds

- Share electrons
- **Non-metal** bonded to another **non-metal**
- First element gets a prefix only if more than one
- Second element always gets a prefix and ends in “ide”

Prefixes

- I. mono
- II. di
- III. tri
- IV. tetra
- V. penta
- VI. hexa
- VII. hepta
- VIII. octa
- IX. nona
- X. deca

Using The Prefixes:

- I. mono
- II. di
- III. tri
- IV. tetra
- V. penta
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CO
carbon monoxide

CO₂
carbon dioxide

C₃O₂
tricarbon dioxide

Using The Prefixes:



dinitrogen heptachloride



dinitrogen tetroxide

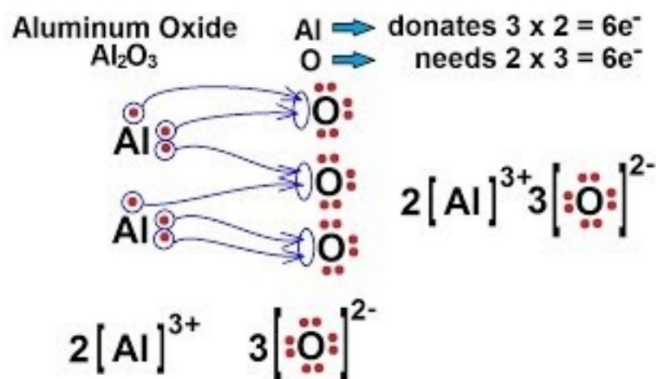
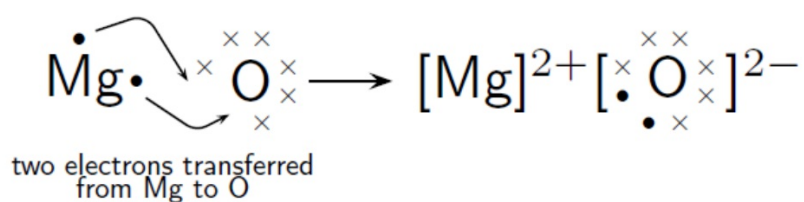


Carbon tetrafluoride

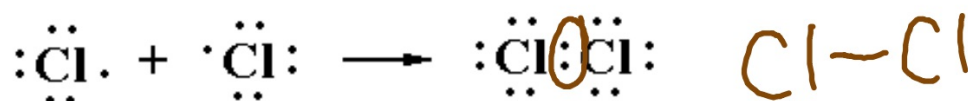
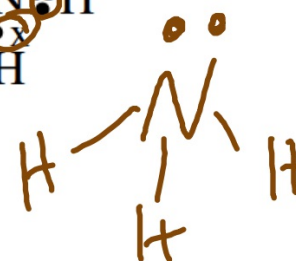
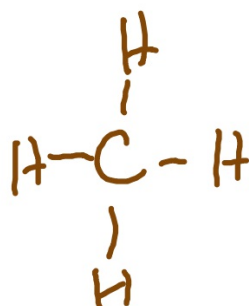
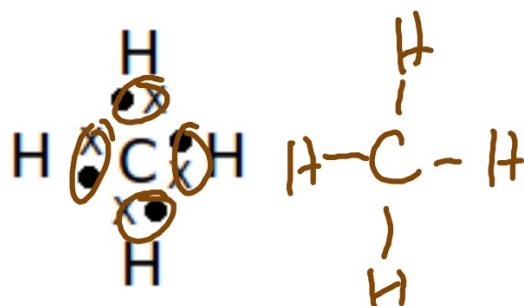
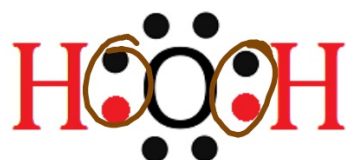


disulfur trifluoride

Lewis Dot Structures of Ionic Compounds



Lewis Structures of Covalent Compounds



Ionic or Molecular

- | | |
|----------------------|---|
| 1. NaCl | I |
| 2. CO | M |
| 3. NO ₂ | M |
| 4. SO ₂ | M |
| 5. Li ₂ O | I |
| 6. NaF | I |
| 7. MgO | I |
| 8. SF ₆ | M |
| 9. KCl | I |
| 10. NO | M |

Polyatomic Ions - Flash Cards

+1

ammonium, NH_4^+

-1

acetate, $\text{C}_2\text{H}_3\text{O}_2^-$, or CH_3COO^-

chlorate, ClO_3^-

chlorite, ClO_2^-

hydrogen carbonate, HCO_3^- (also called bicarbonate)

hydroxide, OH^-

nitrate, NO_3^-

nitrite, NO_2^-

-2

carbonate, CO_3^{-2}

sulfate, SO_4^{-2}

sulfite, SO_3^{-2}

-3

phosphate, PO_4^{-3}

phosphite, PO_3^{-3}

Naming Molecular Compounds Homework

<http://drmoad.weebly.com/>

Exit Ticket #28:

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Covalent Compounds