

Bell Ringer #25:

Socratic Room Name:
LEVEL70WARRIOR

Periodic Table Test Day

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Agenda

Bell Ringer
Brief Ion Intro
Periodic Trends Review
Periodic Table Test (50 min)
Periodic Trends Lab
Exit Ticket

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Ionic Compounds

What are ionic compounds?



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Ionic Compound Rules

- Cation goes first.
- Charges must add up to zero.
- Anion will end in “ide” unless it is a polyatomic ion.
- If more than one polyatomic ion, use parenthesis.
- Must tell the charge of transition metal with Roman numbers.

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Polyatomic Ions

+1
ammonium, NH_4^+

-1
acetate, $\text{C}_2\text{H}_3\text{O}_2^-$, or CH_3COO^-

bromate, BrO_3^-

chlorate, ClO_3^-

chlorite, ClO_2^-

cyanide, CN^-

hydrogen carbonate, HCO_3^- (also called bicarbonate)

hydroxide, OH^-

hypochlorite, ClO^-

iodate, IO_3^-

nitrate, NO_3^-

nitrite, NO_2^-

permanganate, MnO_4^-

perchlorate, ClO_4^-

thiocyanate, SCN^-

-2

carbonate, CO_3^{2-}

chromate, CrO_4^{2-}

dichromate, $\text{Cr}_2\text{O}_7^{2-}$

oxalate, $\text{C}_2\text{O}_4^{2-}$

peroxide, O_2^{2-}

sulfate, SO_4^{2-}

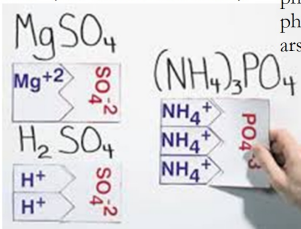
sulfite, SO_3^{2-}

-3

phosphate, PO_4^{3-}

phosphite, PO_3^{3-}

arsenate, AsO_4^{3-}

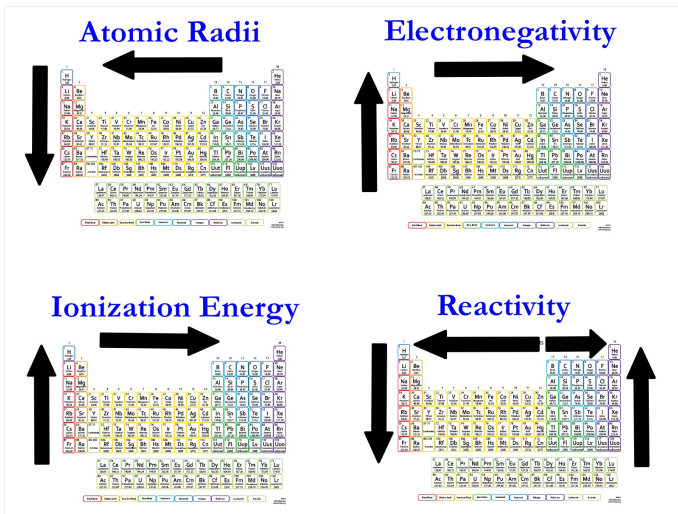


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Test Outline

- Metals, Non-metals, Metalloids (locations and properties)
- Groups: Alkali Metals, Alkaline Earth Metals, Halogens, Noble Gases, Transition Metals
- Trends: Atomic Size, Reactivity, Electronegativity, Ionization Energy
- Cations & Anions

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Periodic Table Test (50 min)

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Start Trends Lab

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Exit Ticket #25: Socratic Room Name:
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Periodic Table Review

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