

Bell Ringer #20:

Socrative Room Name:
LEVEL70WARRIOR

Periodic Table

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

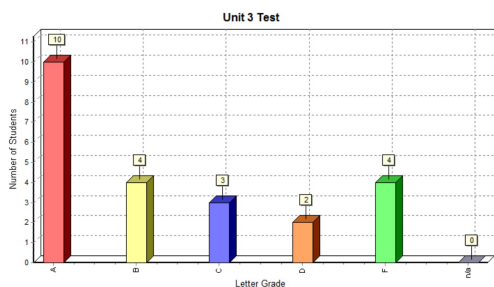
Page 1

Agenda

Bell Ringer
Return Exam 3
Periodic Table Video
Groups & Periods Activity
Alkali Metal Demo
Hindenburg Disaster Video
Whiteboard Practice Problems
Exit Ticket

Page 2

Exam 3:



Class Average ~79%

Page 3

Periodic Table Video

Worksheet (due today)

<https://www.youtube.com/watch?v=PyJtAuCSTLY>

Page 4

Vocabulary that you need to know:

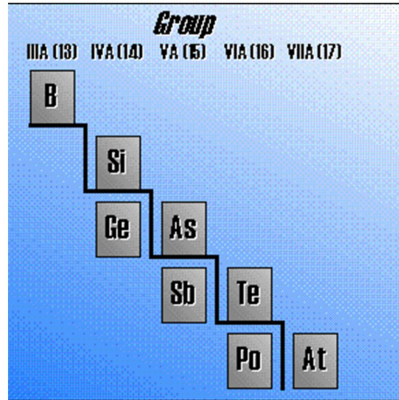
Ductile
Malleable
Luster
Ion
Cation
Anion
Electronegativity
Ionization Energy
Atomic Radius

Page 5

Groups and Periods Activity

Page 6

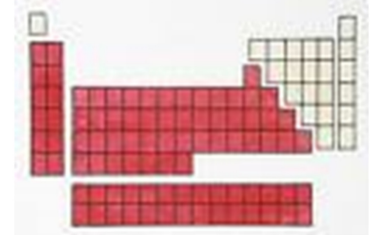
Metalloids



Page 7

Metals

- Left side of the periodic table
- Conduct heat and electricity
- Form cations
- Malleable
- Ductile
- Luster



Page 8

Alkali Metals

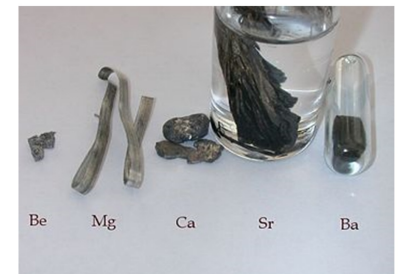
- First column of the periodic table
- Not Hydrogen
- Forms cations with a +1 charge



Page 9

Alkaline Metals

- Second column of the periodic table
- Forms cations with a +2 charge



Page 10

Transition Metals

- Found in the d-block



Page 11

Lanthanide Metals

- Found in the first row of the f-block

A periodic table where the lanthanide series (elements 57-71) and actinide series (elements 89-103) are highlighted in yellow. The lanthanides are labeled "Lanthanides" below the table.

Page 12

Actinide Metals

- Second row in the f-block

A periodic table of elements with the actinide series (elements 89-103) highlighted in a purple box at the bottom. The actinides are labeled as 'ACTINIDES' and include Th, Pa, U, Np, Pu, Am, Cm, Bk, Cf, Es, Fm, Md, No, and Lr.

Page 13

Non-Metals

- Right side of the periodic table
- Do not conduct heat and electricity
- Forms anions (except noble gases)

A periodic table of elements with non-metals highlighted in red. These include elements from the upper right quadrant, such as C, N, O, F, Ne, P, S, Cl, Ar, Se, Br, Kr, I, Xe, and the noble gases.

Page 14

Halogens

- Second to last column
- Forms anions with -1 charge

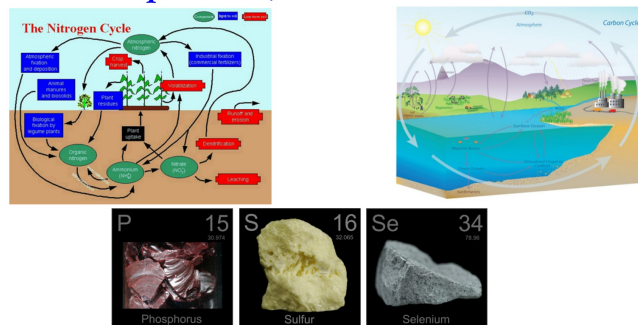


A periodic table of elements with the halogen group (elements 17 and 18) highlighted in green. The elements are F, Cl, Br, I, and At.

Page 15

Other non-metals

- Carbon, Nitrogen, Oxygen, Phosphorous, Sulfur and Selenium



Page 16

Noble Gases

- Last column in the periodic table



A periodic table of elements with the noble gas group (elements 18 and 19) highlighted in red. The elements are He, Ne, Ar, Kr, Xe, and Rn.

Page 17

Sodium Demo

Page 18

Hindenburg Disaster Video

<https://www.youtube.com/watch?v=zWKyYRJEcRo>

Page 19

Whiteboard Practice Problems

Which of the following elements are ductile?

Mn
Co
Fe
N
Br

Page 20

Whiteboard Practice Problems

Which elements are solids?

Ba
Be
Br
N
Cl

Page 21

Whiteboard Practice Problems

Which elements conduct heat well?

N
Ti
Am
Br
I

Page 22

Whiteboard Practice Problems

Which elements are non-metals?

N
O
I
Al
B

Page 23

Whiteboard Practice Problems

Which elements are metalloids?

Te
As
N
C
Cu

Page 24

Whiteboard Practice Problems

Which element has a higher electronegativity?

Li or O

Page 25

Whiteboard Practice Problems

Which element has the higher ionization energy?

F or O

Page 26

Exit Ticket #20:

Socratic Room Name:
LEVEL70WARRIOR

Periods & Groups

Page 27