

Packet 5B

1) Name 4 nonmetals that are in the solid phase at room temperature.

2) Identify the group name for each of the following elements.

potassium	calcium	iodine	argon
-----------	---------	--------	-------

3) What can be said about elements in the same group?

4) Provide the information asked for:

a. Name two elements that have a higher density than aluminum
b. Name the element with the highest boiling point.
c. Name the only metal that is liquid at room temperature.
d. What is the only element along the metal/nonmetal stair step that is NOT a semimetal?

5) Give the symbol for each of the following elements.

a. hydrogen	b. phosphorus	c. bromine
d. iron	e. neon	

6) For each element, list the number of valence electrons each has.

O	P	Cl	As	Se	B	Kr	S
---	---	----	----	----	---	----	---

Element Ad

With a partner, you will be creating an advertisement for an element on the periodic table. The following is a list of what are some things that should be in the advertisement.

1) Properties of the element (melting point, boiling point, # of valence electrons)

2) Who, What, Where, When

- Who discovered the elements?

- What are some uses of the element?

- Where are the elements found on the planet? (Where are they mined or isolated?)

- When was it discovered?

3) Cost of the element, this is indeed an ad.

4) Why should people buy your element? This is an advertisement, you want people to buy this product.

Bring enthusiasm to the assignment, I want ads that are like those for a monster truck show. This assignment will be out of 30 points. I will be grading you on how much of the content above you got in and the quality of the advertisement. Make it fun, the more fun you have with it the better it will be. The quality of your presentation will be part of your grade. A flipcam is sufficient, but I would like you to use a great deal of enthusiasm. I will be showing these in class, therefore one of the criteria is that the ad be between 30 seconds and 75 seconds. We will have a discussion about your elements. If you just list the following information, than you will earn a 22/30, that is a C, it means you have done average work. Incorporate your imagination into whatever it is that you plan on doing.

Properties – 5pts	4 W's – 5pts	Cost – 5pts
Why Buy – 10pts		Professionalism – 5pts

Book:

Chang: Pg. 51-52

Ch. 3 – 19-26

Pg. 323-328, 344-355 Ch. 8 – 1-12