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Periodic table worksheet 3 answer key

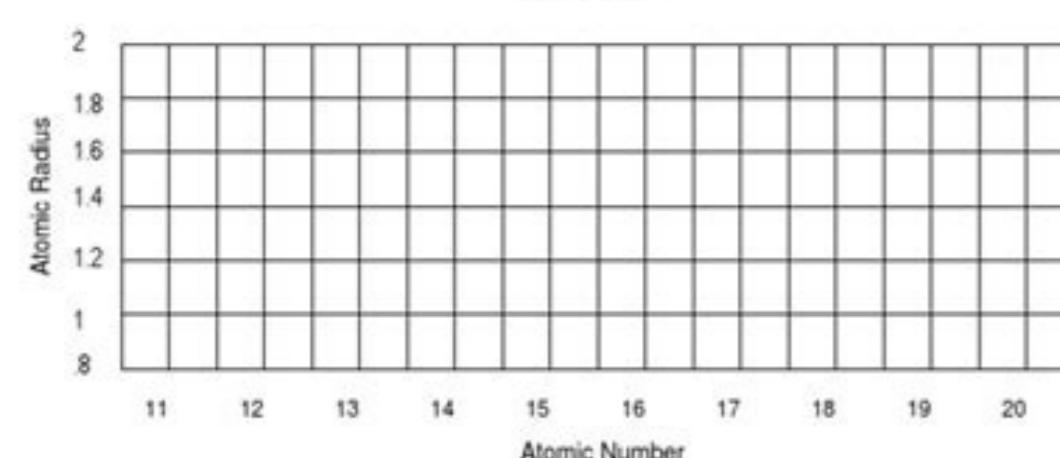
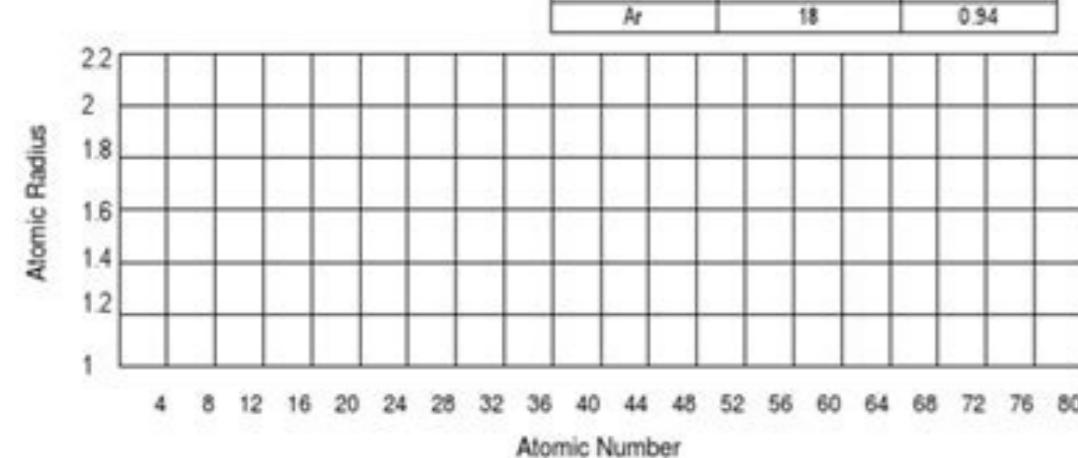
Periodic Trends Worksheet

Name _____

1. Using the data below, make a bar graph of atomic radius vs. atomic number for Group 2A and for Period 3 of the periodic table.

Group 2A		
Element	Atomic Number	Atomic Radius
Be	4	1.11
Mg	12	1.60
Ca	20	1.97
Sr	38	2.15
Ba	56	2.17

Period 3		
Element	Atomic Number	Atomic Radius
Na	11	1.86
Mg	12	1.60
Al	13	1.43
Si	14	1.17
P	15	1.10
S	16	1.04
Cl	17	0.99
Ar	18	0.94



NÔVA: Hunting the Elements

Name: _____

Hr: _____

1. There are _____ unique substances (elements) arranged on an amazing chart that reveals their hidden secrets to anyone who knows how to read it.
2. All the gold ever mined would fit into a single cube about _____ feet on a side.
3. Three-quarters of the elements are _____.
4. How an atom reacts chemically depends on how willing it is to share _____ with others.
5. How much would a 60 pound block of gold be worth in dollars? \$ _____
6. List two things copper is used for:

7. In the assay furnace, a powder called _____ prevents the gold from reacting.
8. Copper's symbol is _____; it has _____ protons and _____ electrons, plus ~ 24 neutrons.
9. When 80% copper is combined with 20% _____, it makes bronze, the 1st manmade alloy.
10. Why not use aluminum for bells?
11. A sea of _____ makes metals malleable & conductors.
12. The zoom to replicate the power of an electron microscope would be like seeing a _____ on Earth from 2,000 miles up in space.
13. Bronze in bells is _____ % Cu and _____ % Sn.
14. The alloy bronze is unpredictable to work with. Out of 100 bells cast, how many don't pass?
15. Why is the microscope wrapped in acoustic blankets?
16. What is the orderly arrangement of electrons called?
17. What part of the atom is actually visible under the microscope?
18. The number of _____ determines what kind of element the atom is.
19. If an atom's electron cloud was 2 miles wide, a proton would be the size of a _____.
20. The number of protons is called the atomic _____ and it's the fundamental organizing principle of every table of the elements.
21. Metals are shiny, malleable materials that conduct _____.
22. Most people think of _____ as white and chalky, but it's actually a silver, shiny metal.

Electron Configuration Practice Worksheet

In the space below, write the full (unabbreviated) electron configurations of the following elements:

- 1) sodium $1s^2 2s^2 2p^6 3s^1$
- 2) iron $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^6$
- 3) bromine $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^6 4p^5$
- 4) barium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^10 4p^6 5s^2$
- 5) neptunium $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^10 4p^6 5s^2 4f^7 5d^10 6p^6 7s^2 5f^5$
everything from barium...

In the space below, write the Noble Gas (abbreviated) electron configurations of the following elements:

- 6) cobalt $[Ar] 4s^2 3d^7$
- 7) silver $[Kr] 5s^2 4d^9$
- 8) tellurium $[Kr] 5s^2 4d^{10} 5p^4$
- 9) radium $[Rn] 7s^2$
- 10) lawrencium $[Rn] 7s^2 5f^4 6d^1$

Determine what elements are denoted by the following electron configurations:

- 11) $1s^2 2s^2 2p^6 3s^2 3p^4$ S sulfur
- 12) $1s^2 2s^2 2p^6 3s^2 3p^6 4s^2 3d^{10} 4p^6 5s^1$ Rb rubidium
- 13) $[Kr] 5s^2 4d^{10} 5p^3$ Sb antimony
- 14) $[Xe] 6s^2 4f^4 5d^8$ Os osmium
- 15) $[Rn] 7s^2 5f^{11}$ Es einsteinium

Name: _____ Date: _____

Atomic Structure



ACROSS

1. A beam of electrons.
4. The fundamental particle of visible light.
5. The center of an atom.
6. The term given to atoms that have the same number of protons but different numbers of neutrons.
11. How positive or negative an atom is.
12. A negatively charged subatomic particle.
13. A subatomic particle with no charge.
14. The smallest unit of an element.
17. Electron emitted by radioactive decay.
20. The number of protons in an atom.
21. The region of space around the nucleus where an electron is likely to be found.
22. An atom that has a positive or negative charge due to the gain or loss of one or more electrons.
23. The total number of protons and neutrons in the nucleus of an atom.
25. Empty space around the nucleus of an atom where electrons travel.

DOWN

1. A subatomic particle with a positive charge.
3. The time for a radioactive substance to lose half of its radioactivity.
6. A minute quantity of matter.
8. A form of matter that cannot be chemically broken down into

Answers

1. simpler substances.
7. smaller than or occurring within an atom.
8. The lowest possible energy state of an atom.
10. Changing of one element to another through radioactive decay.
14. New Zealand physicist who figured out subatomic structure.
15. Two neutrons and two protons

Answers

9. bound together and produced by radioactive decay.
11. Emission of particles from an unstable atom.
16. English physicist who discovered the electron.
18. To break into smaller pieces.
24. The Danish physicist who made essential contributions to the understanding of atomic structure.

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Ion Name	Ion Formula
ammonium	NH_4^+
cyanide	CN^-
hydroxide	OH^-
perchlorate	ClO_4^-
chlorate	ClO_3^-
chlorite	ClO_2^-
hypochlorite	ClO^-
bromate	BrO_3^-
iodate	IO_3^-
nitrate	NO_3^-
sulfate	SO_4^{2-}
carbonate	CO_3^{2-}
hydrogen carbonate (bicarbonate)	HCO_3^-
phosphate	PO_4^{3-}
hydrogen phosphate	HPO_4^{2-}
dihydrogen phosphate	H_2PO_4^-
chromate	CrO_4^{2-}
acetate	CH_3COO^-

But what you might not know was that A^- was inspired by a deck of cards to write each item on a separate card and place them in groups according to their atomic weight. CC0 / ARCAION / Pixabay a proud Papamendeliev was so sure in his system that A^- was able to create spaces on the table for items that had not yet been discovered, including gallium. Modern theories believe that there will be A^- elements due to the loss of electrons during his transmutation of gold. 2.0 / JUIN / Pixabay the annual memory competition. Other sources also have it with Mendely, Lewis and Clark are said to have created the periodic table with their names. Many sources believe that the lead to unleaded petrol switch is causally related to a precipitous drop in crime about 20 years later. CC0 / Andreas160578 / pixabay temporary names for new elements new elements new elements are subject to rigorous peer review. Before being voted by the International Union of Pure and Applied Chemistry. Usually items are given temporary names at this point and are given their permanent names According to Guidelines International CC0 / MAX Pixel Other from QuestionsAnswered.net They are completely safe to eat, and you should ignore any implication to the contrary. CC0 / StockSnap / Pixabay Golden HourGold will not only an item on the periodic table, A^- even a color a sA. Lead has also been shown to cause developmental problems that can lead to irregular behavior in adults. The metal has its warn shade yellowish thanks to the changes of electrical energy in the gold electrons, which makes the metal absorb the extremely light blue spectrum. CC0 / SteveBidlemead / Pixabay Gallio: a demo of favorite chemistry Galio, one of the planned by Mendeleev, A^- a preferred choice for demonstrations of the chemistry class. The pills were clearly named A^- "SrushA" A^- A^- cc 3.0 / JUIN / Wikimedia Commons has driven gasoline to gasoline and crime. Tariffescorcur is not the only item on the periodic table related to behavioral problems. Score: 85 Rank: Correct Answer: Start Quiz >> Score: 0% Rank: Correct Answer: Start Quiz >> Public Domain / 2012RC / Wikimedia Commons You may be familiar with the school chemical periodic table, but there are A^- more that meets the eye with this seemingly simple scientific graph. This solid metal liquefies at a relatively low temperature (about 85 degrees Fahrenheit), which means you can model it into a spoon that will melt into liquid if you use it to mix a hot cup of tea. CC0 / Terric / Pixabay Mercury Madness! Isaac Newton is widely known as a genius. But she struggled with mental illness late in her life. However, his pride made him initially reject elements, such as helium and other noble gases, that do not fit with its structure. CC0 / PEPELS / Pixabay is still growing it might seem that we have discovered everything there is to know about the natural world at this point, but scientific discoveries happen all the time. This fact is often overshadowed by proportion, bananas actually contain a moderate form of potassium. Learn more about the periodic table, including how it was developed and which elements have an interesting history you might not know. Has a single author with a singular inspiration might already know that a man, Dimitri Mendeleev, is responsible for the creation of the periodic table. The new elements were still added in the 21st century. CC0 / publicdomainPictures / Pixabay that Bananasbananas are well known to contain a high concentration of potassium, which is both an essential nutrient and an item on the periodic table. table.

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