Nova hunting the elements worksheet pdf printable 2017 printable

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NOVA Video Questions: *Hunting the Elements*

Geology Mr. Traeger

Name: _____ Period: ____ Date: _____

Answer the questions that follow to the best of your ability. The questions are in chronological order.

1) Where does an element take its identity from? (5:30)

2) How much gold (Au) is extracted per ton of rock ore? (8:30)

3) How much does a gold (Au) bar weigh and how much is it worth? (13:00)

4) Why is copper (Cu) so widely sought on the world market and New York Mercantile Exchange? (16:00)

5) What is copper (Cu) combined with to make bronze? (18:00)

6) What makes metals like Copper (Cu) conductive to electricity? (20:00)

7) Bronze is an alloy. What is an alloy and why are they preferable at times? (22:00)

8) How does the atomic arrangement of atoms lead to its crystal structure like was seen in the sample of bronze with gold (Au) and tin (Sn) atoms? (32:00)

9) What is the atomic number and what does the atomic number indicate? (34:00)

10) Most of the periodic table is made of what type of elements? (35:00)

11) How did early chemists like Mendeleev classify the elements? (38:00)

12) How is the periodic table structured with regard to elements with similar properties? (40:00)

13) What makes noble gases stable? (43:00)

Modern Family: Season 1, Episode 1

Look at the Modern Family family tree and complete the sentences:

brother-in-law nephew grandfather nieces step-uncle
siblings step-grandmother cousin step-mom

1) Jay is Luke's _____.
2) Gloria is Hayley's _____.
3) Phil is Mitchell's _____.
4) Gloria is Claire's _____.
5) Claire and Mitchell are _____.
6) Lily is the _____ of Hayley, Alex, and Luke.
7) Alex and Hayley are Mitchell's _____.
8) Luke is Mitchell's _____.
9) Manny is the _____ of Hayley, Alex, and Luke!

Vocabulary

1) orphanage ____
2) banister ____
3) out of control ____
4) uptight ____
5) chillax ____
6) drama queen ____
7) jackass ____
8) cream puff ____ & ____

a) rebellious; wild
b) idiot (slang)
c) 
d) combination of "chill" and "relax" (slang)
e) an excessively emotional person
f) a home for children without parents
g) an offensive word for a gay man
h) tense; always worried
i)

Secret Code Challenge 1

There are three riddles below written in a secret code.
Can you unravel them?

Hint: Each letter of the alphabet has been replaced by a number. All the riddles use the same code. If you are stuck, you can use our Code Buster 1 printable to help break the code.

23	8	1	20		8	1	19		1		6	1	3	5		1	14	4	
20	23	15		8	1	14	4	19		2	21	20		14	15				
1	18	13	19		15	18		12	5	7	19	7							

23	8	1	20		2	5	7	8	14	19		1	14	4					
5	14	4	19		9	14		5		2	21	20		8	1	19			
15	14	12	25		15	14	5		12	5	20	20	5	18	7				

23	8	1	20		8	1	19		1		14	5	3	11		2	21	20	
14	15		8	5	1	4	7												

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10. Name an expensive period six metal _____
11. What is an important element that keeps you alive from group 16 _____
12. The period five metal which is used to make cans _____
13. This period four metal is used in wires _____
14. Name the group three period five metal _____
15. Name a Noble gas that starts with the letter N _____
16. Your pencil is made of this group 14 element _____
17. Name the first non-metal in period four _____
18. Name an expensive period five metal _____
19. Provide a symbol for a period seven Alkaline Earth metal _____
20. This period four metal is important for growing bones _____
21. Name the only gas in group 1 _____

_ epocsorcim eht rednu elbisiv yllautca si mota eht fo trap tahw .71? _who reveals their secrets hidden to anyone who can read it.2. All the never minted gold fits into a single cube about _____ feet on one side.3._____ As an atom reacts chemically depends on how much it is willing to share _____ How much would a 60-pound gold block worth in dollars? Yeah. List two copper things is used for:7. In the essay furnace, a powder called _____ prevents gold from reacting.8. The copper symbol is _____; has protons _____ and electrons _____, plus ~ 24 neutrons.9. When 80% copper is combined with 20% _____ Why not use aluminum for bells? 11. A sea of _____makes metal malleable & conductors. 12. The zoom to replicate the power of an electron microscope would be like to see a _____ on Earth from 2,000 miles up in space. 13. Bronze in the bells is _____% Cu and _____% Sn.14. The bronze alloy is unpredictable to work with. On 100 bells thrown, how many do not pass? 15. Why is the microscope wrapped in acoustic blankets? 16. What is the ordered arrangement of the electrons called? 17. What part of the atom is really visible under the microscope? 18. The number of _____ determines what type of element is the atom. 19. If the electron cloud of an atom was 2 miles wide, a proton would be the size of a _____.20. The number of protons is called atomic _____ 21. Metals are glossy and malleable materials that lead _____.22.Most people think _____ 23. The bowls of Fiesta®ware, like this of the 1930s, get its orange color _____ 24. The table organizes items by atomic number - the of protons in each atom, yet the-centruy Russian chemistry professor, named Dmitri _____,knew nothing about protons or atomic numbers, and knew only 63 elements.25. The group that fits neatly onto the end of the table, the _____ _____, are unwillingto mix with the other elements and therefore do not react with them.26. Protons may determine the identity of an element, but _____ rule its reactivity.27. An atom with _____ electrons in its outer shell makes one happy, satisfied atom.28. Elements in column 17, just before the stable noble gases, are called the _____.They have an outer shell that needs just one more electron to be full.29. The _____ metals are the first column. Each of them has full shells, plus one extraelectron sitting in a new, outer shell.30. Sodium¢ÂÂÂs extra electron tears water apart, making _____ gas, which explodes when31. Sodium plus chlorine reacts to make table _____.32. The ion chromatograph looks for positively or negatively charged molecules, called _____, inthe residue, fragments of the original chemical explosive.33. Every time atoms form a new bond, the reaction releases _____.34. How do you speed up a fire to create an explosion? You regulate the amount of_____ and how closely it¢ÂÂÂs packed together with other elements.35. The oxygen that powers all those explosions makes up _____% of our atmosphere. It¢ÂÂÂs the mostabundant element in the earth¢ÂÂÂs crust.36. What did they buy at the hardware store to get the 6 common elements of life?37. List two ways that carbon is found in pure form:38. Carbon can form _____ _____ because it has 4 spots to bond.39. Our body composition is about _____% carbon and _____% nitrogen.40. Hydrogen and oxygen can actually be separated from water using a little bit of _____.41. In a person¢ÂÂÂs body, there¢ÂÂÂs _____% oxygen, in the form of water. 42. Phosphorus is actually involved in something really important called _____, which is the molecule that all cells use for energy. 43. Phosphorus was the first element isolated from a living creature & composes about _____ The sulfur is composed of .2% or about _____ 46. Overall only these six CHNOPS elements make up 97% of the weight of his body, but what about the other 3%?_____ Can you get cramps even if you are hydrated? 48. _____ are important for energy metabolism. 49. _____ are an important part of the nervous system function. 50. In total, the body uses multiple _____ items in ways and quantities that are unique to us. 51. As the planet cooled, another ancient mycrorganism evolved and changed everything. They are called cyanobacteria, but we know them as _____ They found out to get their energy from light and water, releasing oxygen as a byproduct, just like modern52. The blue green algae provide about _____ 53. Approximately 90% of all atoms in the universe are atoms _____ 54. Stars like our sun are constantly transforming hydrogen atoms into element number two: helium. This is a process called _____ iloccip iloccip ¹Âip ied onu id orbmem nu ¨Ã de arret alled asoiccor atsorc allen 2 li ¨Ã ,inorttele 41 e inotorp 41 noc ,_____ otnemeleâL .75._____ atamaihc enoisolpse etnetop anu da atrop ossalloc otseuq ,oiccissam aznatsabba ¨Ã es e ,erallorc a aicnimoC .seorht etrom aus allen ¨Ã allets anu ,osuf orref ous li odnauQ - 65 ?)ednarg ¹Âip(eroirepus enidro id itnemele otaerc ah iop asoc ehC .55 .elibitsubmoc id itimil On the table:

The58. The glass starts with the normal _____ Glass manufacturers have learnt to accurately position tiny amounts of atoms _____ as Na, K and Among the silicon atoms. The resulting product is hard, but flexible and scratch resistant. 60. The switches made in semiconductors made the computers possible, but lately when it comes to Hightch, there is a new family on the block, the _____, 15 items located or at the bottom of the table.61. Lists three uses of rare earth metal neodymium.62. My rare Earth Mine is in the United States. Where does the majority (98%) of rare earth minerals come from? 63. _____ produces magnets, but the addition of neodymium produces magnets on steroids.64. The elements of rare land are not rare, but are _____. 65. They accidentally discovered that the strong neodymium magnets (and other elements of rare earth) can effectively repel _____. 66. Scientists now know that most elements are available in more than one version. These versions have been taken into account _____. The difference between them is the number of neutrons in 68. To determine how much time the drought occurred, Scott is using _____ Carbon-14 can be used up to now samples up to about _____ The basis of the periodic table, starting from number 84, polonium, all the elements and their isotopes are _____ 71. The uranium has _____ How many artificial elements (synthetic) were made at the time of the video? 73. How the simulation ofis it similar to a chain reaction of fission? 74. What element was used as fuel for the "Bomblolla" bomb? 75. What element was used as fuel for the fat bomb? 76. Plutonium affirmation fame: It was the _____77. Before the nuclear age, uranium was thought to be the end of the periodic table, but in the last 70years, scientists have left nature behind and created _____ new elements.78. The scientists at Lawrence Livermore Lab have been able to produce 6 new, synthetic elements.Why isn¢ÃÂt there yet a practical use for these elements? elements?

In Predynastic and Early Dynastic times, the Egyptian climate was much less arid than it is today.Large regions of Egypt were covered in treed savanna and traversed by herds of grazing ungulates.Foliage and fauna were far more prolific in all environs and the Nile region supported large populations of waterfowl.Hunting would have been common for Egyptians, and this is ... Website Builder. Mobirise is a free WYSIWYG Web Editor that allows any user with absolute no coding skills to set up a beautiful website in no longer than a few hours. Get 24⁄7 customer support help when you place a homework help service order with us. We will guide you on how to place your essay help, proofreading and editing your draft – fixing the grammar, spelling, or formatting of your paper easily and cheaply. The United States of America (U.S.A. or USA), commonly known as the United States (U.S. or US) or America, is a country primarily located in North America.It consists of 50 states, a federal district, five major unincorporated territories, 326 Indian reservations, and nine minor outlying islands. It is the world's third-largest country by both land and total area. Travel through time by exploring Hollywood.com's entertainment news archives, with 30+ years of entertainment news content. Scopri ricette, idee per la casa, consigli di stile e altre idee da provare. Custom Essay Writing Service - 24/7 Professional Care about Your Writing Un libro è un insieme di fogli, stampati oppure manoscritti, delle stesse dimensioni, rilegati insieme in un certo ordine e racchiusi da una copertina.. Il libro è il veicolo più diffuso del sapere. L'insieme delle opere stampate, inclusi i libri, è detto letteratura.I libri sono pertanto opere letterarie.Nella biblioteconomia e scienza dell'informazione un libro è detto monografia, per ... Es gelten die allgemeinen Geschäftsbedingungen der untenstehenden Anbieter für die von den Anbietern angebotenen Leistungen. Flüge. Flugpreise in externer Werbung – One-way-Preise pro Person basierend auf 1 oder 2 Passagieren (wie angegeben), die mit der gleichen Buchung reisen, inklusive Bearbeitungsgebühr und Flughafensteuer, zuzüglich variabler Kosten für Aufgabegepäck. The United States of America (U.S.A. or USA), commonly known as the United States (U.S. or US) or America, is a country primarily located in North America.It consists of 50 states, a federal district, five major unincorporated territories, 326 Indian reservations, and nine minor outlying islands. It is the world's third-largest country by both land and total area. We provide solutions to students. Please Use Our Service If You’re: Wishing for a unique insight into a subject matter for your subsequent individual research; Password requirements: 6 to 30 characters long; ASCII characters only (characters found on a standard US keyboard); must contain at least 4 different symbols; BibMe Free Bibliography & Citation Maker - MLA, APA, Chicago, Harvard Réservez des vols pas chers sur easyJet.com vers les plus grandes villes d'Europe. Trouvez aussi des offres spéciales sur votre hôtel, votre location de voiture et votre assurance voyage.