Name	Date	Period
VIDEO GUIDE: NOVA - "Hunting	g the Elements"	PERIODIC TABLE OF THE ELEMENTS a. Service of the S
How many different elements are there?		
2) What is the symbol for gold?		Co. Co. Y Z. (c) (c) (c) To To To To To To To T
3) What is gold's atomic number?		Landbracker Landb
What are some unique properties of gold?		
5) What process is used to separate gold atoms from crushed	rock?	
6) How much gold is harvested per ton of earth from the under	ground mine?	
7) Gold does not share its electrons easily. Therefore, it is not	very chemically re	active.
What are two other metals that, like gold, don't react with other	r elements?	
8) What is the worth (\$\$) of one 60-pound bar of gold?		
9) Two rows above gold is the metal:	; its syr	mbol is:
10) In what objects / industries is copper used?		
11) What are some unique properties of copper?		
12) What is the symbol for tin?Wh	nat is its atomic nun	nber?
13) When copper and tin are mixed together, the alloy		is formed.
14) Why isn't copper alone used to make bells?		<i>\</i>
15) It is possible that the crack in the famous Liberty Bell was	caused by too muc	h
16) Metals form crystals, which means that they have an		of atoms.
17) Atoms with 1 proton are the element:; at	oms with 2 protons	s are
18) The number of protons in an atom is known as that elemen	าt's	
19) The chemical symbol of each element is based on the element	nent's name in whi	ch language?
20) More than 70% of the elements on the periodic table are		<u> </u>
21) Why are the noble gases called "noble"?		
22) Which subatomic particles determine an element's reactivi	ty? (circle correct a	nswer)
PROTONS NEUTRONS	ELECTRONS	3
23) How many electrons are in the first shell		
of electrons?The second?		
24) How many electrons do the noble gases have in their oute	rmost shell?	
25) How many electrons does chlorine have in its outermost sl	nell?	
26) What will an atom of chlorine do to complete its		
outer shell?		
27) The alkali metals, such as sodium, have ele	ectron in their outer	shell.
28) What do the alkali metals do with that one electron?		Salt

29) How many e ⁻ are in the outer she	ell of an oxygen atom?	So, it	
wants to gain		0	كورك
30) Nitrates consist of three	atoms connec	eted to one	y Delle
atom.			الوريك
31) Oxygen makes up	of our atmosphere.	4	
Flowerte of Life.			
Elements of Life:		alamanuta	
32) Humans (& all living things!) are			
33) These elements (symbols only) a		<u>, , , , , , , , , , , , , , , , , , , </u>	
34) From which bodily fluid can we h			
phosphorus?			6p
35) How many e ⁻ are in the outer she			6n
So, it wants to gain			
36) What percent of a person's body		<i>51.</i>	Carbon Element
37) What are some "trace" elements			
38) Sodium is important for		·	
Elements of the Universe / Earth:			
39) Atoms of hydrogen have one	and or	ne	
40) Atoms of silicon have	protons, and	electrons.	
41) Glass is made by melting what c	ommon substance?		The same of the same
42) The two elements found in sand	are:		Emmunum Dan
43) Some of the rare earth element	s have been found to be usefu	ul in repelling	
which marine animals?			
ISOTOPES:			
44) All atoms of carbon have	protons. Isotopes of	carbon have	
different number of	<u>.</u>		- 000
45) Which isotope of carbon is used	to determine the age of ancier	nt remains?	STUTIE
46) It can be used to date artifacts u	p to	years old.	9/11/16
47) Atoms of uranium have	protons and	electrons.	
48) The splitting of a uranium atom /			
49) A chain reaction begins with bon	nbarding a sample of uranium	atoms with one	
50) Atoms of plutonium have	protons and	electrons.	120
51) Some manmade elements only ր	persist for	seconds.	neutron
		neutro	n neutron
		,	nucreus 3
			neutron
			7