7) Bronze is an alloy. What is an alloy and why are they

preferable at times?

## **Worksheet #10**

Period: Name: Seat#: The questions are in chronological order. You do not need full sentences. 8) How does the atomic arrangement of atoms lead to its crystal structure like was seen in the sample of bronze 1) Where does an element take its identity from? with gold (Au) and tin (Sn) atoms? 9) What is the atomic number and what does the atomic number indicate? 2) How much gold (Au) is extracted per ton of rock ore? 10) Most of the periodic table is made of what type of elements? 3) How much does a gold (Au) bar weigh and how much is it 11) How did early chemists like Mendeleev classify the elements? 4) Why is copper (Cu) so widely sought on the world market and New York Mercantile Exchange? How is the periodic table structured with regard to elements with similar properties? **5)**What is copper (Cu) combined with to make bronze? What makes noble gases stable? 6) What makes metals like Copper (Cu) conductive to electricity? Why is an alkali metal element like Sodium (Na) so

reactive?

## Dougherty Valley HS Chemistry NOVA Video Questions – Hunting the Elements

15)	What does chlorine (Cl <sup>-</sup> ) do for sodium (Na <sup>+</sup> )? What tasty substance is produced when this happens?	23)	How are rare earth elements like neodymium (Nd) important to our technological world?
16	What powers explosions and fire?	24)	What is an isotope like Carbon-14?
17	What elements are basic to all living things?	25)	How can an isotope like Carbon-14 be used to date dead organisms?
18	Why is Carbon (C) so good for forming the structure of life?	26)	What is an unstable radioactive isotope?
19	What are at least three (3) other elements that are used for life functions and what are their uses?	27)	Why don't the man-made radioactive elements exist for very long?
20	Why are cyanobacteria from places like volcanic pools so important for the production of oxygen in our atmosphere?		
21	What was the original element formed moments after the Big Bang? What then created higher order elements?		
22	How does silicon shape our technological reality?		