NOVA Video Questions: Name: Hunting the Elements Per: Seat #:	14) Why is an alkali metal element like Sodium (Na) so reactive?
http://www.pbs.org/wgbh/nova/physics/hunting-elements.html 1) Where does an element take its identity from?	15) What does chlorine (CI-) do for sodium (Na+)? What tasty substance is produced when this happens?
2) How much gold (Au) is extracted per ton of rock ore?	16) What powers explosions and fire?
3) How much does a gold (Au) bar weigh and how much is it worth?	17) What elements are basic to all living things?
4) Why is copper (Cu) so widely sought on the world market and New York Mercantile Exchange?	18) Why is Carbon (C) so good for forming the structure of life?
5) What is copper (Cu) combined with to make bronze?	19) What are at least three (3) other elements that are used for life functions and what are their uses?
6) What makes metals like Copper (Cu) conductive to electricity?	20) Why are cyanobacteria from places like volcanic pools so important for the production of oxygen in our atmosphere?
7) Bronze is an alloy. What is an alloy and why are they preferable at times?	almosphere?
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?	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?
9) What is the atomic number and what does the atomic number indicate?	23) How are rare earth elements like neodymium (Nd) important to our technological world?
10) Most of the periodic table is made of what type of elements?	24) What is an isotope like Carbon-14
11) How did early chemists like Mendeleev classify the elements?	25) How can an isotope like Carbon-14 be used to date dead organisms?
12) How is the periodic table structured with regard to elements with similar properties?	26) What is an unstable radioactive isotope?
13) What makes noble gases stable?	27) Why don't the man-made radioactive elements exist for very long?