

Name:

Period:

Seat#:

The questions are in chronological order. You do not need full sentences.

- 1) Where does an element take its identity from?
- 2) How much gold (Au) is extracted per ton of rock ore?
- 3) How much does a gold (Au) bar weigh and how much is it worth?
- 4) Why is copper (Cu) so widely sought on the world market and New York Mercantile Exchange?
- 5) What is copper (Cu) combined with to make bronze?
- 6) What makes metals like Copper (Cu) conductive to electricity?
- 7) Bronze is an alloy. What is an alloy and why are they preferable at times?

- 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?
- 9) What is the atomic number and what does the atomic number indicate?
- 10) Most of the periodic table is made of what type of elements?
- 11) How did early chemists like Mendeleev classify the elements?
- 12) How is the periodic table structured with regard to elements with similar properties?
- 13) What makes noble gases stable?
- 14) Why is an alkali metal element like Sodium (Na) so reactive?

Dougherty Valley HS Chemistry

NOVA Video Questions – Hunting the Elements

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