

B. atomic number C. atomic mass D. symbol

Unit 2 – Matter and Chemical Change

| | _ | Studen | t Name | | | | | Class |
|----------------------|--|--|-----------------------------|----------------|----------------------|--|------------------------|--|
| | Section | 2 | | N | ature of M | atter Over | Time - Periodic | Table |
| A. B. C. | The first ch tools made rocks, scis wood pulp stones and plants and | from the ssors and ir dependent depe | ese Ind paper Ik S | 8000 B.C. | Because m | netals had no | ot been discovered, | humans used only simple |
| A. B. C. | This is deri Caustic Chemistry Copper Copernicu | , | m "khemeia | " (a Greek v | vord) | | | |
| A. B. C. | 'alkimiya' (Alchemy Alkali Apostle The Chem | | bic word) tr | anslates as | | | | |
| A. B. C. | The scienti Lavoisier Boyle Libeu Dalton | st who | developed t | he 'billiard t | all' model d | of the atom w | /as | |
| A. B. C. | Most model model of the a charged fixed orbit random pa scattered | e atom cloud s s atterns | | | | cles, called e | electrons, orbiting th | e nucleus. The quantum |
| 6. | \bigcirc | This a | ncient eleme | ent symbol | 7. | | This element syml | ool means |
| A. B. C. D. | copper silver gold tin | | | | A. B. C. D. | oxygen hydrogen silver carbon | | |
| | discovered. | By us | ing informat | ion cards he | charted th | | t seemed to work. | rties of elements not yet The characteristic that |



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9.



In this element -Potassium -19 refers to the ... 10.



In this element -Potassium -39.0983 refers to the ...

A. mass

B. reactivity

C. number

D. Ion charge

mass

В. reactivity

C. number

Ion charge D.

Use this periodic table information to answer the next two questions

| 1.0 H 1 | | | | | | | | | | | | | | | 4.0 He 2 | | |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|-------|-------|
| 6.9 | 9.0 | | | | | | | | | | | | 12.0 | 14.0 | 16.0 | 19.0 | 20.2 |
| Li | Be | | | | | | | | | | | | C | N | O | F | Ne |
| 3 | 4 | | | | | | | | | | | | 6 | 7 | 8 | 9 | 10 |
| 23.0 | 24.3 | | | | | | | | | | | 27.0 | 28.1 | 31.0 | 32.1 | 35.5 | 39.9 |
| Na | Mg | | | | | | | | | | | Al | Si | P | S | Cl | Ar |
| 11 | 12 | | | | | | | | | | | 13 | 14 | 15 | 16 | 17 | 18 |
| 39.1 | 40.1 | 45.0 | 47.9 | 50.9 | 52.0 | 54.9 | 55.8 | 58.9 | 58.7 | 63.5 | 65.4 | 69.7 | 72.6 | 74.9 | 79.0 | 79.9 | 83.8 |
| K | Ca | Sc | Ti | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ge | As | Se | Br | Kr |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 |
| 85.5 | 87.6 | 88.9 | 91.2 | 92.9 | 95.9 | (99) | 101.1 | 102.9 | 106.4 | 107.9 | 112.4 | 114.8 | 118.7 | 121.8 | 127.6 | 126.9 | 131.3 |
| Rb | Sr | Y | Zr | Nb | Mo | Tc | Ru | Rh | Pd | Ag | Cd | In | Sn | Sb | Te | I | Xe |
| 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 |
| 132.9 | 137.3 | 138.9 | 178.5 | 181.0 | 183.9 | 186.2 | 190.2 | 192.2 | 195.1 | 197.0 | 200.6 | 204.4 | 207.2 | 209.0 | (210) | (210) | (222) |
| Cs | Ba | La | Hf | Ta | W | Re | Os | Ir | Pt | Au | Hg | TI | Pb | Bi | Po | At | Rn |
| 55 | 56 | 57 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 |

- **11.** In the table above the following elements would be described as the Noble Gases.
 - A. He, Ne, Ar, Kr, Xe, Rn
 - B. Li, Na, K, Rb, Cs, Fr
 - C. Be, Mg, Ca, Sr, Ba, Ra
 - D. Rf, Db, Sg, Bh, Hs, Mt, Uun
- 12. How many neutrons does Potassium have?
 - A. 15
 - B. 17
 - C. 19
 - D. 20
- 13. As you move across the periodic table the properties of the elements change. The most reactive metals include

- A. sodium and lithium
- B. iron and copper
- C. aluminum and carbon
- D. lead and zinc
- 14. The periodic table is organized by the patterns of the properties of the elements. The rows in the periodic table vary with the amount of elements they contain. These rows are called ...
 - A. groups
 - B. families
 - C. periods
 - D. metals