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| Element | Symbol | Atomic # | Group | Period | Block |
|--------------|--------|----------|-------|--------|-------|
| Hydrogen | H | 1 | 1 | 1 | s |
| Helium | He | 2 | 18 | 1 | s |
| Lithium | Li | 3 | 1 | 2 | s |
| Beryllium | Be | 4 | 2 | 2 | s |
| Boron | B | 5 | 13 | 2 | p |
| Carbon | C | 6 | 14 | 2 | p |
| Nitrogen | N | 7 | 15 | 2 | p |
| Oxygen | O | 8 | 16 | 2 | p |
| Fluorine | F | 9 | 17 | 2 | p |
| Neon | Ne | 10 | 18 | 2 | p |
| Sodium | Na | 11 | 1 | 3 | s |
| Magnesium | Mg | 12 | 2 | 3 | s |
| Aluminum | Al | 13 | 13 | 3 | p |
| Silicon | Si | 14 | 14 | 3 | p |
| Phosphorus | P | 15 | 15 | 3 | p |
| Sulfur | S | 16 | 16 | 3 | p |
| Chlorine | Cl | 17 | 17 | 3 | p |
| Argon | Ar | 18 | 18 | 3 | p |
| Potassium | K | 19 | 1 | 4 | s |
| Calcium | Ca | 20 | 2 | 4 | s |
| Scandium | Sc | 21 | 3 | 4 | d |
| Titanium | Ti | 22 | 4 | 4 | d |
| Vanadium | V | 23 | 5 | 4 | d |
| Chromium | Cr | 24 | 6 | 4 | d |
| Manganese | Mn | 25 | 7 | 4 | d |
| Iron | Fe | 26 | 8 | 4 | d |
| Cobalt | Co | 27 | 9 | 4 | d |
| Nickel | Ni | 28 | 10 | 4 | d |
| Copper | Cu | 29 | 11 | 4 | d |
| Zinc | Zn | 30 | 12 | 4 | d |
| Gallium | Ga | 31 | 13 | 4 | p |
| Germanium | Ge | 32 | 14 | 4 | p |
| Arsenic | As | 33 | 15 | 4 | p |
| Selenium | Se | 34 | 16 | 4 | p |
| Bromine | Br | 35 | 17 | 4 | p |
| Krypton | Kr | 36 | 18 | 4 | p |
| Rubidium | Rb | 37 | 1 | 5 | s |
| Strontium | Sr | 38 | 2 | 5 | s |
| Yttrium | Y | 39 | 3 | 5 | d |
| Zirconium | Zr | 40 | 4 | 5 | d |
| Niobium | Nb | 41 | 5 | 5 | d |
| Molybdenum | Mo | 42 | 6 | 5 | d |
| Technetium | Tc | 43 | 7 | 5 | d |
| Ruthenium | Ru | 44 | 8 | 5 | d |
| Rhodium | Rh | 45 | 9 | 5 | d |
| Palladium | Pd | 46 | 10 | 5 | d |
| Silver | Ag | 47 | 11 | 5 | d |
| Cadmium | Cd | 48 | 12 | 5 | d |
| Indium | In | 49 | 13 | 5 | p |
| Tin | Sn | 50 | 14 | 5 | p |
| Antimony | Sb | 51 | 15 | 5 | p |
| Tellurium | Te | 52 | 16 | 5 | p |
| Iodine | I | 53 | 17 | 5 | p |
| Xenon | Xe | 54 | 18 | 5 | p |
| Cesium | Cs | 55 | 1 | 6 | s |
| Barium | Ba | 56 | 2 | 6 | s |
| Lanthanum | La | 57 | 3 | 6 | f |
| Cerium | Ce | 58 | 4 | 6 | f |
| Praseodymium | Pr | 59 | 5 | 6 | f |
| Neodymium | Nd | 60 | 6 | 6 | f |
| Europium | Eu | 63 | 7 | 6 | f |
| Gadolinium | Gd | 64 | 8 | 6 | f |
| Terbium | Tb | 65 | 9 | 6 | f |
| Dysprosium | Dy | 66 | 10 | 6 | f |
| Ytterbium | Yb | 70 | 14 | 6 | f |
| Lutetium | Lu | 71 | 15 | 6 | f |
| Hafnium | Hf | 72 | 6 | 6 | d |
| Tantalum | Ta | 73 | 7 | 6 | d |
| Tungsten | W | 74 | 8 | 6 | d |
| Rhenium | Re | 75 | 9 | 6 | d |
| Osmium | Os | 76 | 10 | 6 | d |
| Iridium | Ir | 77 | 11 | 6 | d |
| Platinum | Pt | 78 | 12 | 6 | d |
| Gold | Au | 79 | 13 | 6 | d |
| Mercury | Hg | 80 | 14 | 6 | d |
| Thallium | Tl | 81 | 15 | 6 | p |
| Lead | Pb | 82 | 16 | 6 | p |
| Bismuth | Bi | 83 | 17 | 6 | p |
| Polonium | Po | 84 | 18 | 6 | p |
| Astatine | At | 85 | 19 | 6 | p |
| Radium | Ra | 88 | 20 | 6 | s |
| Actinium | Ac | 89 | 3 | 7 | f |
| Thorium | Th | 90 | 4 | 7 | f |
| Protactinium | Pa | 91 | 5 | 7 | f |
| Uranium | U | 92 | 6 | 7 | f |
| N plutonium | Pu | 94 | 8 | 7 | f |
| Americium | Am | 95 | 9 | 7 | f |
| Curium | Cm | 96 | 10 | 7 | f |
| Berkelium | Bk | 97 | 11 | 7 | f |
| Californium | Cf | 98 | 12 | 7 | f |
| Einsteinium | Ee | 99 | 13 | 7 | f |
| Fermium | Fm | 100 | 14 | 7 | f |
| Mendelevium | Md | 101 | 15 | 7 | f |
| Nobelium | Nb | 102 | 16 | 7 | f |
| Lanthanum | La | 57 | 3 | 6 | f |
| Cerium | Ce | 58 | 4 | 6 | f |
| Praseodymium | Pr | 59 | 5 | 6 | f |
| Neodymium | Nd | 60 | 6 | 6 | f |
| Europium | Eu | 63 | 7 | 6 | f |
| Gadolinium | Gd | 64 | 8 | 6 | f |
| Terbium | Tb | 65 | 9 | 6 | f |
| Dysprosium | Dy | 66 | 10 | 6 | f |
| Ytterbium | Yb | 70 | 14 | 6 | f |
| Lutetium | Lu | 71 | 15 | 6 | f |

Chem 111: Isotope Practice

Name: _____

- Here are three isotopes of an element: $^{12}_6\text{C}$, $^{13}_6\text{C}$, $^{14}_6\text{C}$
 - The element is: _____
 - The number 6 refers to the _____
 - The numbers 12, 13, and 14 refer to the _____
 - How many protons and neutrons are in the first isotope? _____
 - How many protons and neutrons are in the second isotope? _____
 - How many protons and neutrons are in the third isotope? _____

2. Complete the following chart:

| Isotope | atomic # | mass # | # of protons | # of neutrons | # of electrons |
|-----------------------|----------|--------|--------------|---------------|----------------|
| $^{238}_{92}\text{U}$ | | | | | |
| $^{235}_{92}\text{U}$ | | | | | |
| $^{10}_5\text{B}$ | | | | | |
| $^{11}_5\text{B}$ | | | | | |

- In a sample of 400 lithium atoms, it is found that 30 atoms are lithium-6 (6.015 g/mol) and 370 atoms are lithium-7 (7.016 g/mol). Calculate the average atomic mass of the lithium sample.
- Copper is made up of two isotopes, Cu-63 (62.9296 amu) and Cu-65 (64.9278 amu). Given copper's atomic weight of 63.546, what is the percent abundance of each isotope?

Name: _____ Period: _____ Date: _____

ISOTOPES, IONS, AND ATOMS WORKSHEET

Atomic # = # of protons; Mass # = # of protons + # of neutrons; Protons = atomic #; Neutrons = mass # - atomic #; Charge = ion

| Atom # | Mass # | Z | A | # of p | # of n | charge | Symbol |
|--------|--------|-----|----|--------|--------|--------|------------------|
| 1) | 17 | | | 17 | 0 | | |
| 2) | 180 | | 71 | 109 | | | |
| 3) | | 40 | 38 | 46 | | | |
| 4) | 92 | 238 | | 86 | | | |
| 5) | | | | | | 206 | Pu ⁴⁺ |
| 6) | | 34 | | 45 | -2 | | |
| 7) | 113 | 48 | 49 | | | | |
| 8) | 21 | 42 | | 0 | | | |
| 9) | | | | | | 31 | P ³⁻ |
| 10) | | 83 | 80 | 126 | | | |
| 11) | | | | | | 168 | At |
| 12) | 116 | 49 | | -3 | | | |
| 13) | 128 | 53 | | -1 | | | |
| 14) | 76 | 188 | | 72 | | | |

| Year | Number of Pennies | Average Atomic Mass |
|------|-------------------|---------------------|
| 0 | 10 | 2.5 |
| 1 | 9 | 2.55 |
| 2 | 8 | 2.61 |
| 3 | 7 | 2.665 |
| 4 | 6 | 2.72 |
| 5 | 5 | 2.775 |
| 6 | 4 | 2.83 |
| 7 | 3 | 2.885 |
| 8 | 2 | 2.94 |
| 9 | 1 | 2.995 |
| 10 | 0 | 3.05 |

Part 2: Taking a Closer Look at Average Atomic Mass

1. Once you have calculated your average atomic mass, write your value on the board and fill in the table below with data from your fellow chemists:

| # of Before-1982 Pennies | # of After-1982 Pennies | Average Atomic Mass |
|--------------------------|-------------------------|---------------------|
| 0 | 10 | 2.5 |
| 1 | 9 | 2.55 |
| 2 | 8 | 2.61 |
| 3 | 7 | 2.665 |
| 4 | 6 | 2.72 |
| 5 | 5 | 2.775 |
| 6 | 4 | 2.83 |
| 7 | 3 | 2.885 |
| 8 | 2 | 2.94 |
| 9 | 1 | 2.995 |
| 10 | 0 | 3.05 |

2. What trends do you see in the table as the:

- Number of Before-1982 pennies increases?
- Number of After-1982 pennies increases?

a. *the average atomic mass goes up*

b. *the average atomic mass goes down*

c. What does this tell us about the Average Atomic Mass?

This tells us that the average atomic mass is the weighted average of the masses of the isotopes. The more of the lighter isotope (before-1982) you have, the lower the average atomic mass will be. As you have more of the heavier isotope (after-1982), the average atomic mass will increase.

3. Compare the average mass of all pennies to the average atomic mass. Explain what you notice.

The average mass of all pennies is the average atomic mass. It is the weighted average of the masses of the isotopes. The more of the lighter isotope (before-1982) you have, the lower the average atomic mass will be. As you have more of the heavier isotope (after-1982), the average atomic mass will increase.

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