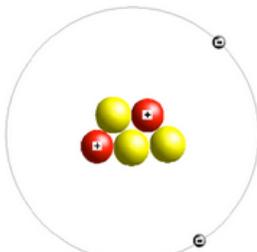
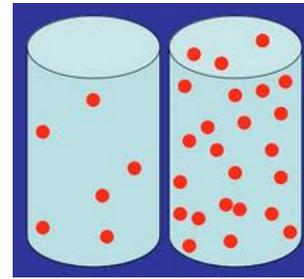


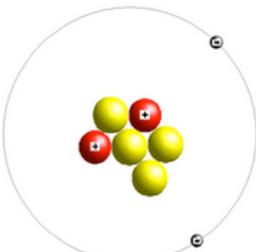
Picture Match Words

Fusion	Density
Isotope	Neutron
Atomic Number	Structure
Components	Function
Atomic Mass	Orbit

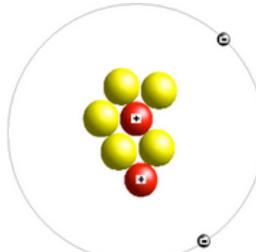
Picture Match Board



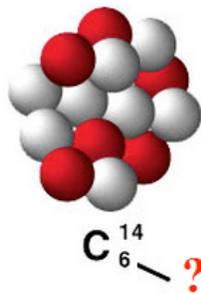
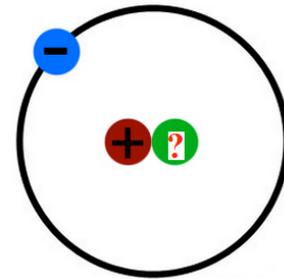
5-Helium



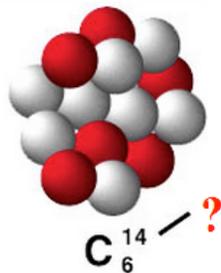
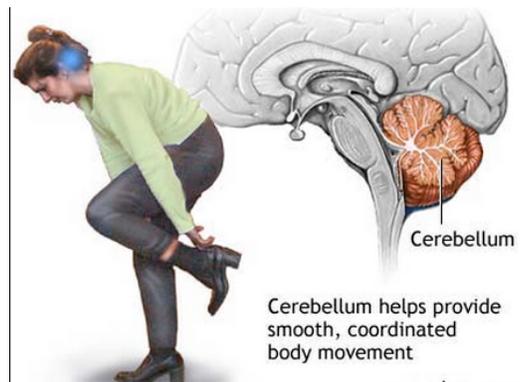
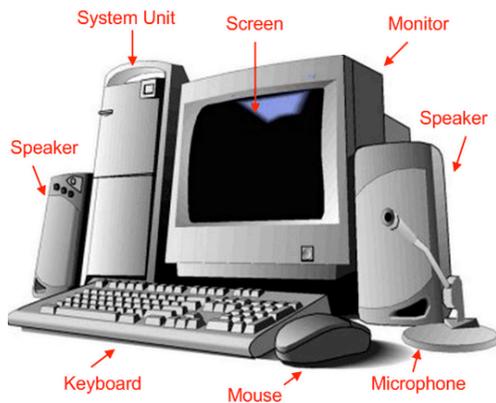
6-Helium



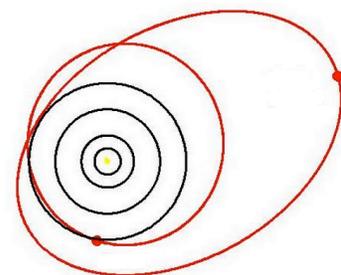
7-Helium



C^{14}_6 ?



C^{14}_6 ?



Spelling Pyramid

Mass M Ma Mas Mass	Component
Neutron	Structure
Function	Isotope
Atomic	Number

Write 2 sentences using the words from the spelling pyramid:

1. _____

2. _____

Card game

<p>Density: the amount of matter in something in relationship to its weight and size (= mass/volume)</p>	<p>Fusion: a process in which the nuclei of atoms are joined</p>
<p>Neutron: a very small particle with no (neutral) electrical charge; part of the nucleus</p>	<p>Component: a part of something (such as a system or mixture)</p>
<p>Structure: the way that something is built, arranged, or organized</p>	<p>Function: the special purpose or activity for which a thing exists or is used</p>
<p>Isotope: atoms of the same element with a different number of neutrons.</p>	<p>Atomic Number: the number of protons found in the nucleus of an atom</p>
<p>Atomic Mass: is the mass of one atom of a given element (the sum of the atom's component masses)</p>	<p>Orbit: to travel around (something, such as a planet or moon) in a curved path (to make an orbit around something)</p>

Jeopardy

- a. Round 1: “Jeopardy” (Materials: the Wednesday set for the host)
 - i. The class splits into two teams + 1 person is the game host
 - ii. 1 person from each team stands approaches the host’s table.
 - iii. The host reads a word, the first person who “pushes a button” gets to provide the word definition. The correct definition gets the team a point.
 - iv. The game continues until all words have been used.
- b. Round 2: Each team gets a set of 4 key vocab words and blank sentence strip. The teams are asked to develop sentences using the key words. Each scientifically (1pt) + grammatically correct (1pt) sentence gets the team 2 points.

Friday

- c. Quiz
- d. **Grade own understanding (using the Vocab Journal on a scale of 1-4)**

Answer Key

#	Sentence	Letter	Correct
1.	As humans become older and older, their bones gradually loose <u>density</u> (= bones become less solid and less heavy).	D	
2.	<u>Neutrons</u> and protons cluster (= group) together to form the nucleus.	A	
3.	Atoms of the same element with a different number of neutrons are called <u>isotopes</u> .	B	
4.	The Earth <u>orbits</u> around the Sun.	E	
5.	The atomic <u>structure</u> includes neutrons, protons, and electrons.	C	
6.	The <u>fusion</u> process inside of stars is able to create all of the elements up to Iron.	A	
7.	The number of protons in an atom of a particular element is called the <u>atomic number</u> .	C	
8.	The main <u>function</u> of a fusion reactors is to produce energy.	D	
9.	The positively charged <u>component</u> of an atom is called a proton.	B	
10.	<u>Atomic mass</u> is the sum of an atom’s component masses.	E	

Name _____ Date _____

Using the Word Bank, choose the best word (or phrase) that matches each sentence. Write the word on the line and put the corresponding letter in the space provided.

Part A

A. Neutrons	D. density
B. isotopes	E. orbits
C. structure	

#	Sentence	Letter	Correct
1.	As humans become older and older, their bones gradually loose _____ (= bones become less solid and less heavy).		
2.	_____ and protons cluster (= group) together to form the nucleus.		
3.	Atoms of the same element with a different number of neutrons are called _____.		
4.	The Earth _____ around the Sun.		
5.	The atomic _____ includes neutrons, protons, and electrons.		

Part B

A. fusion	D. function
B. component	E. Atomic mass
C. atomic number	

#	Sentence	Letter	Correct
6.	The _____ process inside of stars is able to create all of the elements up to Iron.		
7.	The number of protons in an atom of a particular element is called the _____.		
8.	The main _____ of a fusion reactors is to produce energy.		
9.	The positively charged _____ of an atom is called a proton.		
10	_____ is the sum of an atom's component masses.		
Total correct			____/10

Name _____ Date _____

Bubble Answer Sheet

A



C

D

Part A

- | | | | | |
|----|-------------------------|-------------------------|-------------------------|-------------------------|
| 1. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 2. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 3. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 4. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |

Part B

- | | | | | |
|----|-------------------------|-------------------------|-------------------------|-------------------------|
| 2. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 3. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 4. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |
| 5. | <input type="radio"/> A | <input type="radio"/> B | <input type="radio"/> C | <input type="radio"/> D |