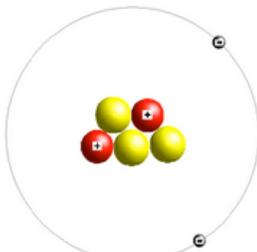
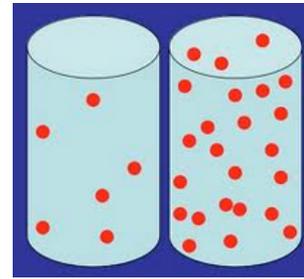


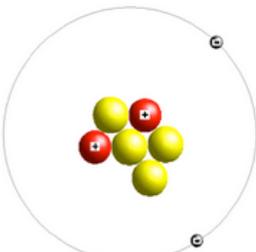
## Picture Match Words

<b>Fusion</b>	<b>Density</b>
<b>Isotope</b>	<b>Neutron</b>
<b>Atomic Number</b>	<b>Structure</b>
<b>Components</b>	<b>Function</b>
<b>Atomic Mass</b>	<b>Orbit</b>

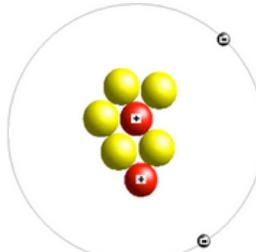
# Picture Match Board



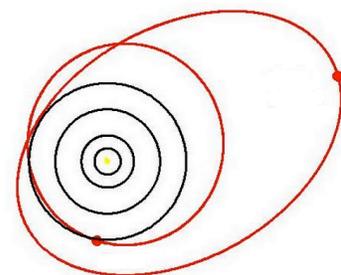
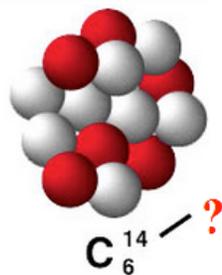
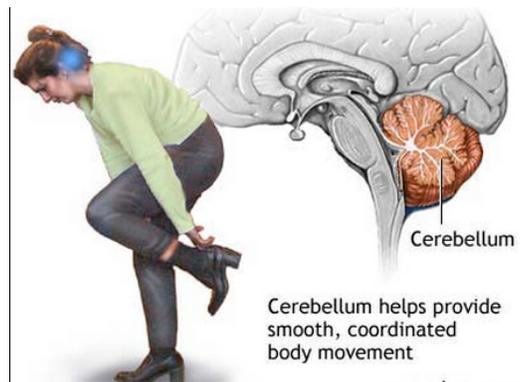
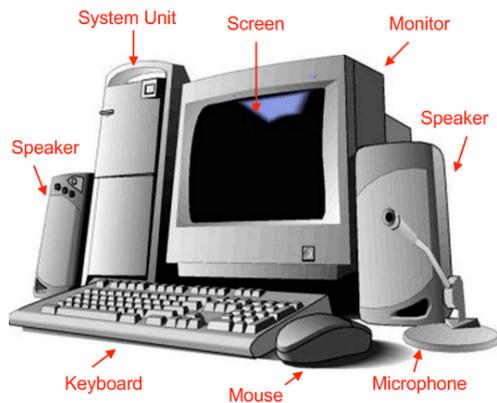
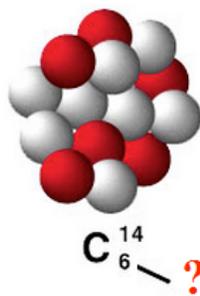
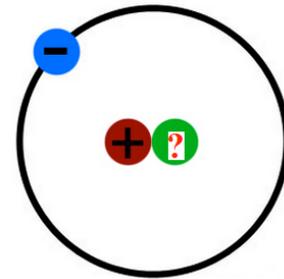
5-Helium



6-Helium



7-Helium



## Spelling Pyramid

<b>Mass</b>  M Ma Mas Mass	<b>Component</b>
<b>Neutron</b>	<b>Structure</b>
<b>Function</b>	<b>Isotope</b>
<b>Atomic</b>	<b>Number</b>

Write 2 sentences using the words from the spelling pyramid:

1. \_\_\_\_\_

2. \_\_\_\_\_

## Card game

<p><b>Density:</b> the amount of matter in something in relationship to its weight and size (= mass/volume)</p>	<p><b>Fusion:</b> a process in which the nuclei of atoms are joined</p>
<p><b>Neutron:</b> a very small particle with no (neutral) electrical charge; part of the nucleus</p>	<p><b>Component:</b> a part of something (such as a system or mixture)</p>
<p><b>Structure:</b> the way that something is built, arranged, or organized</p>	<p><b>Function:</b> the special purpose or activity for which a thing exists or is used</p>
<p><b>Isotope:</b> atoms of the same element with a different number of neutrons.</p>	<p><b>Atomic Number:</b> the number of protons found in the nucleus of an atom</p>
<p><b>Atomic Mass:</b> is the mass of one atom of a given element (the sum of the atom's component masses)</p>	<p><b>Orbit:</b> 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).	<b>D</b>	
2.	<u>Neutrons</u> and protons cluster (= group) together to form the nucleus.	<b>A</b>	
3.	Atoms of the same element with a different number of neutrons are called <u>isotopes</u> .	<b>B</b>	
4.	The Earth <u>orbits</u> around the Sun.	<b>E</b>	
5.	The atomic <u>structure</u> includes neutrons, protons, and electrons.	<b>C</b>	
6.	The <u>fusion</u> process inside of stars is able to create all of the elements up to Iron.	<b>A</b>	
7.	The number of protons in an atom of a particular element is called the <u>atomic number</u> .	<b>C</b>	
8.	The main <u>function</u> of a fusion reactors is to produce energy.	<b>D</b>	
9.	The positively charged <u>component</u> of an atom is called a proton.	<b>B</b>	
10.	<u>Atomic mass</u> is the sum of an atom’s component masses.	<b>E</b>	

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.		
<b>Total correct</b>			____/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 |