

O plays · O players

2 A private kahoot

### Questions (27)

1 - Quiz

Which of the following changes to atomic number best characterizes beta decay?

20 sec

Decreases by two

~

Increases by one

Decreases by one

**/** 

Unchanged

2 - Quiz				
Whi	20 sec			
	It is a form of pure energy	<b>~</b>		
<b>•</b>	It is a high energy electron	×		
	It is a nucleus of a helium atom	×		
	All of the above	×		
3 - Quiz				
Which form of radioactivity results in the shallowest penetration?				
	Alpha	✓		
<b>•</b>	Beta	×		
	Gamma	×		
	Delta	×		

4 - Quiz 20 sec A sample of radioactive material is usually alittle warmer than its surroundings because: . It absorbs and releases energy from sunlight . Its atoms are continuously being struck by particles It is radioactive It emits alpha and beta particles 5 - Quiz 20 sec The primary hazard of radiation is . Damage to living cells due to ionization Damage to cells due to heating Damage to living cells due to impurities The creation of new isotopes in the body

6 - Quiz 20 sec Element has half life of 1hr. If you start with a 1-gram sample at noon, how much of this element will be left a 4:00pm? a. 0.5 grams b. 0.25 grams c. 0.125 grams d. 0.0625 grams 7 - Quiz 20 sec Radiative dates are based on a. The ratio of unstable parent material and stable daughter product b. Measuring the amount of unstable isotopes c. Measuring the amount of atoms that decay perunit of time None OF THESE

8 - Quiz  Nuclear reactions might be considered betterthan chemical reactions for producing usableheat energy because:			
No harmful by-products result	×		
Very little energy is needed to start the reaction	×		
All of the Above	×		
9 - Quiz	20 sec		
One of the most serious problems surrounding the use of nuclear power is:			
a. Finding a way to dispose of spent fuel rods	<b>✓</b>		
b. High cost	×		
c. Lack of Uranium	×		
d. Initiating a chain reaction	×		

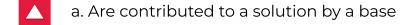
10 - Quiz				
Which is a true statement regarding <i>fusion</i> ?				
a. It is the process in which the sun generates energy	<b>✓</b>			
b. It is the basis for nuclear energy in power plants	×			
c. It occurs at lower temperatures than fission	×			
All of the above	×			
11 - Quiz				
Electrons with higher energy are located:				
a. Farther from the nucleus	✓			
b. Closer to the nucleus	×			
c. In the nucleus	×			
d. At lower levels in the atom	×			

12 - Quiz			
An atom absorbs energy as its electrons:			
a. Move from low to high energy levels	✓		
b. Stay in a high energy level	X		
c. Move from a high to low energy levels	X		
d. Stay in a low energy level	×		
13 - Quiz			
Hydrogen ions:			
a. Are contributed to a solution by a base	×		
b. Are represented as H+	<b>✓</b>		
c. Usually increase the pH value when added	×		

All of the above

## Hydroxide ions:

20 sec







b. Are represented as OH-



c. Usually increase the pH value when added





All of the above



#### 15 - Quiz

# Solution #1 has a pH of 3. Solution #2 has a pH of 5. How many more H+ ions does one solution have than the other?

20 sec



a. #1 has 10 times as many as #2





b. #1 has 100 times as many as #2

X



c. #2 has 10 times as many as #1

X



d. #2 has 100 times as many as #1

**/** 

16 - Quiz 20 sec As a polyatomic ion, carbonate bonds the element Carbon with which other? a. Hydrogen b. Nitrogen c. Oxygen d. None of the above 17 - Quiz 20 sec The formula SO 2- 3 represents which polyatomic ion? a. Sulfate b. Sulfite c. Sulfide d. Sulfur

18 - True or false 20 sec Because 78% of the atmosphere is Nitrogen, most organisms, including humans, get the nitrogen they need by inhaling. True False 19 - True or false 20 sec Many plants rely on both photosynthesis and cell respiration for survival True False 20 - True or false 20 sec Decomposers work by breaking down organic matter into its simpler components to be re-used. True False

21 - True or false  Nitrogen Fixation is an important step in fertilizing plant growth			
True	<b>✓</b>		
False	×		
22 - True or false  The <i>rock cycle</i> interacts with the <i>carbon cycle</i> by storing and releasing carbon.	20 sec		
True	<b>✓</b>		
False	×		
23 - True or false  A <i>primary consumer</i> would get its carbon from a <i>secondary consumer</i> .			
True	×		
False	<b>✓</b>		

24 - True or false 20 sec When humans burn fossil fuels, the impact can be measured in thenitrogen cycle. True False 25 - True or false 20 sec elements like carbon and nitrogen stored in humans never gets consumed by other organisms or return True False 26 - True or false 20 sec Organic chemistry involves mostly metallic elements on the periodic table False

### 27 - True or false

## Human cell energy reactions are nearly the same as a *combustion*engine

20 sec



True





False