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Atomic Structure Review

NAME \_\_\_\_\_

1. The 3 particles of the atom are:

	Location in Atom?	Size of LOCATION?	Charge?	Mass?
Protons	NUCLEUS	.000176	+	1.6726
Neutrons	NUCLEUS	.000176	neutral	1.6749
Electrons	ORBITAL	99.99976	-	.00054858

2. The number of protons in one atom of an element determines the atom's atomic number and the number of electrons determines the charge of an element.

3. The atomic number tells you the number of protons in one atom of an element. It also tells you the number of electrons in a neutral atom of that element.

4. The atomic number gives the "identity" of an element as well as its location on the Periodic Table. No two different elements will have the same atomic number.

5. The average mass of an element is the average mass of an element's naturally occurring atoms, or isotopes, taking into account the relative quantity of each isotope.

6. The mass of an element is the total number of protons and neutrons in the nuclides of the atom.

7. The mass number is used to calculate the number of neutrons in one atom of an element. In order to calculate the number of neutrons you must subtract the atomic from the mass.

SCIENCE GRADE 6  
Fourth Grading Periodical Test

Name \_\_\_\_\_ Grade/Section \_\_\_\_\_

School \_\_\_\_\_ Teacher \_\_\_\_\_

**Directions:** Read the questions carefully and choose the letter of the best answer.

1. What kind of wind that blows over the Philippines during the months of June to September?
- A. Southeast Monsoon

B. Northeast Monsoon

C. Southwest Monsoon

D. Northwest Monsoon
2. What characterizes the dry season in the Philippines?
- A. more southwest monsoons

B. least amount of rain during the year

C. tropical cyclones

D. average amount of rainfall during the year
3. Our country is heated near the equator. During some months the earth's axis is tilted towards the sun. What season do we experience?
- A. hot season

B. rainy season

C. winter season

D. fall season
4. Which of the following does **NOT** affect the season in the Philippines?
- A. rotation and tilting of the earth's axis

B. the surrounding bodies of water

C. the surrounding bodies of land

D. the distance of our country from the sun
5. A kind of wind that gives us the coldest temperature of the year.
- A. Trade Winds

B. Polar Easterlies

C. Northeast Monsoon

D. Southwest Monsoon
6. How do you know that the rotation of the earth affects the wind movement?
- A. The wind from the north is deflected to the right.

B. The wind from the south is deflected to the left.

C. The winds from the poles do not move straight to the equator

D. All the given answers.
7. Why does the Southwest Monsoon bring heavy rain?
- A. The air moves fast.

B. The air is very humid.

C. The air pressure is high

D. The air is warm and dry
8. The weather reporter says a cold front is coming. What does this mean?
- A. Rain is coming soon.

B. Cold air mass is invading warmer air

C. Warm air mass is invading cooler air

D. A northerly wind is carrying cold Wind.
9. Why do winds deflect to the right in the northern hemisphere and to the left in the southern hemisphere?
- A. Earth's rotation

C. Wind is a moving air

The Rise and Fall of  
Jim Crow

close

1965 ALABAMA LITERACY TEST

QUESTIONS ANSWERS

Text courtesy Kids Voting USA.

1. Which of the following is a right guaranteed by the Bill of Rights?

Public Education

Employment

Trial by Jury

Voting

2. The federal census of population is taken every five years.

True

False

3. If a person is indicted for a crime, name two rights which he has.

4. A U.S. senator elected at the general election in November takes office the following year on what date?

5. A President elected at the general election in November takes office the following year on what date?

6. Which definition applies to the word "amendment?"

Proposed change, as in a Constitution

Make of peace between nationals at war

A part of the government

7. A person appointed to the U.S. Supreme Court is appointed for a term of \_\_\_\_\_.

8. When the Constitution was approved by the original colonies, how many states had to ratify it in order for it to be in effect?

9. Does enumeration affect the income tax levied on citizens in various states?

10. A person opposed to swearing in an oath may say, instead: I (solemnly) \_\_\_\_\_

11. To serve as President of the United States, a person must have attained:

25 years of age

35 years of age

40 years of age

45 years of age

12. What words are required by law to be on all coins and paper currency of the U.S.?

13. The Supreme Court is the chief lawmaking body of the state.

True

False

4)

Given:  $\overline{WX} \parallel \overline{YZ}, \overline{WX} \cong \overline{YZ}$   
Prove:  $\triangle WXZ \cong \triangle YZX$

Thoughts:

Statements	Reasons
1) $\overline{WX} \not\cong \overline{YZ}$	1) given
2) $\angle WXZ \cong \angle YZX$	2) Alt. Interior $\angle$ s
3) $\angle WZX \cong \angle YXZ$	3) SAA

5)

Given:  $\angle K \cong \angle M, L$  is midpoint of  $\overline{KM}$   
Prove:  $\triangle KPL \cong \triangle PML$

Thoughts:

Statements	Reasons
1) $\angle K \cong \angle M$ $L$ is midpoint of $\overline{KM}$	1) given
2) $\overline{KL} \cong \overline{LM}$	2) Def. of midpoint
3) $\angle KPL \cong \angle PML$	3) Vertical Angles
4) $\triangle KPL \cong \triangle PML$	4) ASA

6)

Given:  $\angle B$  and  $\angle D$  are right angles.  
 $\overline{AE}$  bisects  $\overline{BD}$   
Prove:  $\triangle ABC \cong \triangle EDC$

Thoughts:

Statements	Reasons
1) $\angle B \cong \angle D$ and $\overline{BC} \cong \overline{DC}$	1) given
2) $\angle B \cong \angle D$	2) All rt $\angle$ s are $\cong$
3) $\overline{BC} \cong \overline{DC}$	3) Def. of bisect
4) $\angle BCD \cong \angle DCB$	4) Vertical angles
5) $\triangle ABC \cong \triangle EDC$	5) ASA

7)

Given:  $\overline{JM}$  bisects  $\angle J, \overline{JM} \perp \overline{KL}$   
Prove:  $\triangle JMK \cong \triangle JML$

Thoughts:

Statements	Reasons
1) $\overline{JM}$ bisects $\angle J$ $\overline{JM} \perp \overline{KL}$	1) given
2) $\angle JKM \cong \angle JLM$	2) Def. of bisect
3) $\angle KJM \cong \angle LJM$ are right $\angle$ s	3) Def. of $\perp$ , linear pair
4) $\angle KJM \cong \angle LJM$	4) All right $\angle$ s are $\cong$
5) $\overline{JM} \cong \overline{JM}$	5) Reflexive
6) $\triangle JMK \cong \triangle JML$	6) ASA

1. Mark your conclusion.

2. Thoroughly summarize the article & a thoughtful response to the author's vision.

3. Write a reflection.

### Sickle cell anemia patient 'cured' by gene therapy, doctors say

By Susan Schultz, CNN on Press, March 6, 2017

CHEN is a word that, a teenager with sickle cell disease achieved complete remission after an experimental gene therapy at Weill Children's Hospital in Paris, researchers say. People with sickle cell disease, a group of inherited blood disorders, have abnormal hemoglobin in their red blood cells, causing blood to clog in the vessels and organs of the body. After 15 months' stem treatment, the patient — who began therapy at age 13 — no longer needs medication, and his blood cells show no further sign of the disease, according to a case report published Thursday in The New England Journal of Medicine.

"Since therapy was applied, he hasn't had any pain, any complications. He is free of any transfusions. He does sports and goes to school," said Dr. Philippe Labrousse, an author of the new research and a professor of medicine at the University of Paris. "So we are quite pleased with the results." The success provides proof of concept for human patients, Labrousse said.

According to Dr. Marina Cassatani, senior author of the study and head of the biotechnology department at Weill, "All the biological tests we perform lead us to think he is cured." But, she added, the answer to the question of whether he is truly cured "can be provided only by the longer follow-up." Still, hopes are running high that patients with this very devastating disease can receive the therapy "in the next few years," Cassatani said. "This is our hope, and we work very hard to attain it."

#### A Global Burden

Worldwide, more than 275,000 infants are born with sickle cell disease each year. In the United States, approximately 100,000 people, most of African ancestry or identifying as Black, currently have it. About one in every 500 black children in the US is born with sickle cell disease, for which the life expectancy is now about 42 to 50 years. Sickle cell disease is one of the most common genetic disorders in the world, explained Labrousse. A genetic mutation causes hemoglobin, the main constituent of red blood cells, to distort the shape of the cell, and this causes the blood to aggregate or clog.

This leads to "hemorrhagic pain, anemia and also lesions of organs that ultimately result in shortness of life expectancy," Labrousse said. "So what we did here was, we tried to inhibit the process of aggregation." Essentially, researchers extracted bone marrow from the patient, harvested the stem cells and altered the genetic instructions so that they would make normal hemoglobin. Next, they treated the patient with chemotherapy for four days to suppress his diseased stem cells. Finally, they returned the treated stem cells via an IV into his bloodstream. "We observed that the cells that were modified outside the body started to make new blood cells, and we hope the same for the patient," Labrousse said. Before receiving treatment, the teen had serious pain and required blood transfusions. After the treatment, he required fewer transfusions, Labrousse explained. His many complications, which necessitated his replacement surgery.

### BIOLOGY

with Bryan and Jack

Photo Courtesy: PeopleImages/Getty Images OSU made this list because of its high passing rate and its accreditation for both online Bachelors of Arts and Bachelors of Science degrees. Sit where you can hear. Among the reasons why ASU made this list is its fast-track option that lets the students take the course at a faster pace allowing them to complete it in as short as two and a half years. Enrollees are required to have a minimum GPA of 2.0 in pre-psychology courses. Color code things. You often close your eyes to visualize or remember something, and you will find something to watch if you become bored. You can picture what you are learning in your head, and you learn best by using methods that are primarily visual. You understand and remember things through physical movement. You like to see what you are learning. Use a computer to reinforce learning through the sense of touch. You store information by the way it sounds, and you have an easier time understanding spoken instructions than written ones. Those who are planning to enroll in UCF's psychology program have to maintain a 2.0 GPA. Draw pictures to help explain new concepts and then explain the pictures. Remember that you learn best by doing, not just by reading, seeing, or hearing. Need to charge Users to take your online Exams? You can Sell Quizzes Online & receive payments instantly. Try to visualize things that you hear or things that are read to you. You can assign your Test to a registered Group of students, or create a unique Link to your Test to send out or embed the Test on your website. Our custom web-based Testing tool allows you to easily create secure online Exams & assessments with advanced Quiz settings such as time limits, public & private Test access, randomize Questions, instant feedback, multiple choice, matching, short answer, video, audio, essay & more Question types, embed exams in Wordpress & Google Sites. It has a graduation rate of 90 percent with more than three-quarters of new graduates finding either full-time or part-time work within a year after they graduate. Photo Courtesy: PeopleImages/Getty Images Like the first two entries on this list, UH's psychology program requires 120 credits to complete. You need to be active and take frequent breaks, you often speak with your hands and with gestures, and you may have difficulty sitting still. These courses can set students along the path towards a career in counseling, psychological technician and higher education administrator. University of HoustonThe University of Houston may be considered as one of the pioneers of distance by virtue of launching the first television station in the country that focuses on education in 1953. Used globally for business & enterprise training Tests, pre-employment assessments, online certifications & compliance, recruitment, health & safety quizzes, schools, universities, distance learning, lead generation, GDPR & CCPA compliance, online courses, E-Learning, practice Tests & more. After completing several major courses, the students can choose multiple electives. MORE FROM QUESTIONSANSWERED.NET If you are an auditory learner, you learn by hearing and listening. We've created affordable Online Testing Plans to suit every organization. People may think you are not paying attention, even though you may be hearing and understanding everything being said. Have test questions read to you out loud. Use flashcards to learn new words; read them out loud. It's OK to tap a pencil, shake your foot, or hold on to something while learning. Quiz Maker API & Webhooks Have Test results sent to your website in real time! View our Developers Documentation & Partner Integrations. You understand and remember things by sight. Trace words with your finger to learn spelling (finger spelling). The tuition is the same for both in-state and out-of-state students at around \$300.Arizona State UniversityArizona State University offers programs for Bachelor of Arts and Bachelor of Science in Psychology online. Register your account and you can start creating Online Tests today You can create unlimited Tests with ClassMarker All Questions you add will be added to your Question bank for re-use across your tests. How to sync with Google Classroom Photo Courtesy: damircudic/Getty Images It doesn't come much as a surprise why online colleges and universities are attracting more attention in light of the coronavirus pandemic. Like the previous entries, prospective students have to complete the general education curriculum. Here are some things that visual learners like you can do to learn better: Sit near the front of the classroom. Remember that you need to see things, not just hear things, to learn well. Those who are looking to earn a degree in psychology may want to check out the following institutions with accredited psychology programs. Have your hearing checked on a regular basis. Study new material by reading it out loud. (It won't mean you're the teacher's pet!) Have your eyesight checked on a regular basis. Use flashcards to learn new words. You are attracted to color and to spoken language (like stories) that is rich in imagery. Write down key words, ideas, or instructions. The school requires a 2.0 grade-point average (GPA) for current high school graduates and a 2.7 from transfers. Do lots of hands-on activities like completing art projects, taking walks, or acting out stories. While accreditation almost guarantees high academic standards, the following schools also ranked high due to the flexibility and affordability of their programs.University of FloridaThe University of Florida is one of the most consistent high ranking institutions when it comes to psychology programs along with other universities in Florida. The length of the psychology programs is approximately four years. You can easily set time limits, availability dates, public and private access permissions, cheat prevention, randomize questions and answers, give certificates, email results and select if students can view their results. If you are a visual learner, you learn by reading or seeing pictures. You often learn by reading out loud because you have to hear it or speak it in order to know it. In-state students get a huge 50 percent discount on tuition fees while out of state students have to pay more than \$800 per credit. The 65-credit major includes courses in evolutionary psychology and behavior modification. UH currently offers more than 300 courses for online classes, which includes a bachelor's degree in psychology. Here are some things that auditory learners like you can do to learn better. As an auditory learner, you probably hum or talk to yourself or others if you become bored. Sync class rosters and share assignments in Google Classroom or your LMS system and push grades back to your gradebook. Even though the school launched its distance learning programs only in 2014, its number of online courses has since grown to more than 500 and several programs, which include a Bachelor of Arts in Psychology. However, the curriculum is flexible enough to allow students to complete a minor. From occasional Testing to Enterprise Quiz Maker requirements, ClassMarker is your Secure & reliable exam maker & online testing solution. Record yourself spelling words and then listen to the recording. You may be very well coordinated and have good athletic ability. Photo Courtesy: recep-hg/Getty Images Among UCF's psychology programs include general psychology, human factors psychology, experimental psychology and neuroscience. Tuition is \$129 per credit for in-state students and \$553 for students from outside of Florida.University of Central FloridaAnother Florida institution made this list because, as with UFL, it features a flexible program that offers multiple concentration options. You can create multiple choice questions, true/false and matching questions, short answers and essay questions. You can also Test 1,000s of Users simultaneously with ClassMarker. Prospective psychology students can choose courses in abnormal psychology, comparative psychology, developmental psychology, behavioral analysis, and laboratory methods. You can easily remember things that were done but may have difficulty remembering what you saw or heard in the process. Its psychology program includes courses in psychology of personality, psychology statistics, physiological statistics and psychology and law. As a visual learner, you are usually neat and clean. As a tactile learner, you like to take things apart and put things together, and you tend to find reasons to tinker or move around when you become bored. You understand and remember things you have heard. You may have difficulty with spoken directions and may be easily distracted by sounds. This allows online students to customize their schedules, which can be especially helpful for those who currently have full-time or part-time jobs. These courses prepare students for a career in social services and various community positions. It should be noted that prospective students need to have completed 42 credits in general education and other lower-level credits.Oregon State UniversityUnlike the other entries on this list, Oregon State University does not offer concentrations with its online psychology programs. Photo Courtesy: JGI/Jamie Grill/Getty Images Another reason is that the school has a high hiring rate with 90 percent of students receiving job offers prior to graduation. View details of Test results including selected answers and category results. You are a "hands-on" learner who prefers to touch, move, build, or draw what you learn, and you tend to learn better when some type of physical activity is involved. Take frequent breaks during reading or studying periods (frequent, but not long). Students can complete their Bachelor of Arts completely online. Despite safety restrictions, recent high school graduates, as well as professionals, can still pursue their degrees via colleges and universities with distance learning programs. Their program requires 180 credits in five areas, including psychology major, liberal arts core, baccalaureate core and other degree requirements. Integrates seamlessly with the technology you already use Easy sign on through Google, MS365 or Clever. If you are a tactile learner, you learn by touching and doing. Courses include cognitive neuroscience, social psychology and health psychology. View Examples the thousands of top professionals using ClassMarker around the world & start creating custom Online Quizzes today. It's OK to chew gum, walk around, or rock in a chair while reading or studying. Depending on the program, students can earn a degree within two years. Photo Courtesy: damircudic/Getty Images The coursework for UFL's online psychology program consists of 120-credit asynchronous coursework. Remember that you need to hear things, not just see things, in order to learn well. Teachers and administrators can view Test result statistics such as correct answer frequency, best performing students, category results and more! More clients ClassMarker's hosted Online Testing software provides the best Quiz maker tool in 2022 for both Teachers & Businesses. Learn how to create Online Tests with ClassMarker. Here are some things that tactile learners like you can do to learn better: Participate in activities that involve touching, building, moving, or drawing. You often communicate by touching, and you appreciate physically expressed forms of encouragement, such as a pat on the back. Read stories, assignments, or directions out loud. Avoid distractions during study times. Use flashcards and arrange them in groups to show relationships between ideas.

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