



- Q. Where has National 4-H Congress been held since 1997? 4HA
A. Atlanta, Georgia
- Q. In what Tennessee city does State 4-H Electric Camp take place? 4HA
A. Knoxville
- Q. What is the newest 4-H project? 4HP
A. Computers and Technology
- Q. What form must a 4-H Agent or volunteer leader have before a 4-H'er can attend an event? 4HE
A. The 600A Form or the Angel Form
- Q. What are the 4-H colors? 4HS
A. Green and White
- Q. What current 4-H event was named Tennessee 4-H Club Short Course in 1939? 4HH
A. Tennessee 4-H Roundup
- Q. What is the reference date used in 4-H for grade? 4HE
A. Jan. 1st of current year
- Q. Name the group of teens who promote 4-H by singing and dancing....performing most notably at Tennessee 4-H Congress. 4HA
A. The Tennessee 4-H Performing Arts Troupe
- Q. Citizenship Focus, a national 4-H event dealing with government, takes place in what city? 4HA
A. Washington, D.C.
- Q. What did Tennessee 4-H do to celebrate Homecoming '86? 4HH
A. Compiled a History on Tennessee 4-H - "4-H a Tennessee Tradition"
- Q. What did Tennessee 4-H members wear to National Congress for the first time in 1947? 4HH
A. The white sweaters with the Vol State emblem.
- Q. Which 4-H project is generally considered to be the first one organized in Tennessee? 4HP
A. Food Preservation (in 1912) (now part Food Science project)
- Q. What was the official name of the POW Camp, now known as Clyde M York 4-H Center? 4HH
A. "Camp Crossville"
- Q. Junior 4-H members are in what grade? 4HE
A. 5th
- Q. What is another term for a written record of the 4-H club meeting? 4HL
A. The Minutes
- Q. What is the traditional date of National 4-H Week? 4HS
A. The first full week in October



- Q. In what unique way did German POW's decorate what is now the Clyde M. York 4-H Center in Crossville? 4HH
A. They painted murals on the walls of the Rec Hall (The murals were scenes from their homeland.)
- Q. What is the name of the inspirational ceremony which takes place at camp right about sundown? 4HA
A. Flag Retreat
- Q. How were Tennessee 4-H'ers honored for their contribution to the World War II war effort? 4HH
A. They got to name a ship (S.S. Charles A. Keffer)
- Q. What are oral reasons? 4HC
A. A verbal or spoken justification of why you placed a JUDGING class a certain way
- Q. What is the official name of the 4-H shooting sports program? 4HC
A. Target SMART
- Q. In the 4-H Target SMART program, what does the acronym "SMART" stand for? 4HA
A. Shotgun, Muzzleloader, Archery and Rifle Training
- Q. What is the term for a 4th grade 4-H member? 4HE
A. Explorer (4-H'er)
- Q. What Federal Law provided the funding for the 4-H program in the United States? 4HH
A. The Smith-Lever Act (of 1914)
- Q. State Academic Conference is open to 4-H members of what age group? 4HA
A. Junior High (6th, 7th, & 8th Grades)
- Q. How long does a person have to answer a Clover Bowl question after "buzzing in?" 4HC
A. 10 seconds
- Q. What was the original use of the 4-H camp at Crossville? 4HH
A. World War II Prisoner of War Camp
- Q. What is the title of a person employed by the University of Tennessee to conduct the 4-H program? 4HH
A. A 4-H agent
- Q. What is the name of the inspirational part of the 4-H club meeting? 4HS
A. Thought for the Day
- Q. State 4-H Round-Up is held at two different locations in Tennessee. Name these locations. 4HH
A. UT Knoxville and UT Martin
- Q. What is the most common way to earn a trip to National 4-H Congress? 4HA
A. Be a state winner in a 4-H project
- Q. Adults, teens, and volunteers are examples of what group of people who help agents conduct the 4-H program? 4HL
A. Leaders



- Q. At the 1970 Tennessee 4-H Congress, each county delegation brought something from their county. What was it? 4HH
A. A soil sample (the samples were sent to help nourish the Tennessee State tree planted at the National 4-H Center)
- Q. The 4-H emblem was adopted in what year? 4HS
A. 1927
- Q. 4-H members pledge their hearts to what? 4HS
A. Greater Loyalty
- Q. Former 4-H members, who are students at Tennessee Tech, MTSU and the University of Tennessee, can still take part in 4-H activities through what organization? 4HL
A. Collegiate 4-H
- Q. In which 4-H contest would you make a "mini 4-H billboard?" 4HC
A. The 4-H Poster Contest
- Q. Compare and Contrast how the original payment for 4-H camp differed from today's? 4HH
A. 4-H members paid in produce, such as a bushel of corn, etc.
- Q. Who wrote the 4-H Pledge? 4HH
A. Otis Hall (from Kansas)
- Q. What is the first order of business in any 4-H meeting? 4HL
A. The President Calls the Meeting to Order.
- Q. Who served the longest as State 4-H Leader in Tennessee? 4HH
A. G.L. Herrington
- Q. In what city is the National 4-H Center located? 4HA
A. Washington, D.C. (Chevy Chase, Maryland)
- Q. Name the 4-H Center located in Columbia. 4HA
A. William P Ridley 4-H Center
- Q. What phrase was not part of the original 4-H pledge? 4HS
A. "and my world"
- Q. Where does the Southern Regional Teen Leadership Conference take place? 4HA
A. Clyde M. York 4-H Center in Crossville
- Q. 4-H is open to young people of what school grades? 4HE
A. 4th through 12th Grades
- Q. How many judging teams are offered in Tennessee 4-H? 4HC
A. 13



- Q. What does the term "extemporaneous" mean as it relates to 4-H? (Pronounced X-TEMP-POUR-RAIN-EE-US) 4HC
A. An unprepared speech (Senior members do this in addition to a prepared speech)
- Q. Which 4-H project could be defined as learning how to influence people to make some kind of change? 4HP
A. Leadership
- Q. Which 4-H officer's main duty is to preside over the meetings? 4HL
A. The President
- Q. What 4-H symbol is copyrighted? 4HS
A. The 4-H Clover
- Q. What is the 4-H Emblem? 4HS
A. A Four-Leaf Clover
- Q. In how many 4-H contests must you participate in order to be eligible for Junior 4-H camp? 4HE
A. None
- Q. Which 4-H officer's main duty is to get someone to do parts of the program? 4HL
A. The Vice-President
- Q. 4-H is open to young people of what age range? 4HE
A. Ages 9 to 19
- Q. The State 4-H Horse show is held each year in what Tennessee city? 4HC
A. Shelbyville
- Q. At which State 4-H event do 4-H members act as representatives and senators? 4HA
A. Tennessee 4-H Congress
- Q. At what state 4-H event, do 4-H members participate in "Know Your Government" activities? 4HA
A. Tennessee 4-H Congress
- Q. How many projects are offered to Tennessee 4-H members? 4HP
A. 26
- Q. An extemporaneous speech should last no more than how many minutes? (Pronounced X-TEMP-POUR-RAIN-EE-US) 4HC
A. 2 minutes
- Q. The 4-H Pledge was adopted in what year? 4HS
A. 1927
- Q. In which 4-H contest would you try to inform, entertain or persuade? 4HC
A. Public Speaking
- Q. What person wrote the 4-H motto? 4HH
A. Carrie Harrison



- Q. What current 4-H event was originally named State Club Camp in 1923? 4HH
A. Tennessee 4-H Roundup
- Q. When leading the 4-H Pledge and the Pledge of Allegiance, which pledge should be led first? 4HS
A. The Pledge of Allegiance
- Q. What does it cost to join 4-H in Tennessee? 4HE
A. Absolutely nothing!
- Q. What Tennessee symbol was placed at the National 4-H Center in Washington, by Tennessee 4-H'ers in 1970? 4HH
A. A Tulip Poplar Tree Was Planted
- Q. In which 4-H project would you work with younger 4-H members, and learn more about parliamentary procedure? 4HP
A. Leadership
- Q. A 4-H Art Poster must be orientented in what direction? 4HC
A. Horizontal or Landscaped
- Q. The "Tradition of the Gavel" refers to the gavel constructed by Don Bowman containing a piece of cherry wood from what original courthouse? 4HS
A. Washington County (the oldest county in Tennessee)
- Q. 4-H members pledge their heads to what? 4HS
A. Clearer Thinking
- Q. What are the 4 "H's"? 4HS
A. Head, Heart, Hands, and Health
- Q. 4-H members pledge their health to what? 4HS
A. Better Living
- Q. What is the name of the official Tennessee 4-H History? 4HS
A. 4-H: A Tennessee Tradition
- Q. Which 4-H officer's main duty is the writing of the minutes? 4HL
A. The Secretary
- Q. Target SMART is held at which 4-H Center? 4HA
A. William Ridley (Columbia)
- Q. What is the 4-H Motto? 4HS
A. To Make the Best Better!
- Q. According to 4-H legend, who stalks around Clyde M York 4-H Center at night looking for his lost leg? 4HH
A. The mythical German POW "Herman the German"



- Q. Where did southern Middle Tennessee counties attend 4-H camp before moving to Crossville in 1960? 4HH
A. Camp Woodlee (near McMinnville)
- Q. What award, given at State Round-Up, is the highest level of recognition a 4-H member in Tennessee can receive? 4HL
A. The Vol State Award
- Q. What is the Tennessee 4-H website address? 4HE
A. 4h.tennessee.edu
- Q. Where does Tennessee 4-H Congress take place? 4HA
A. Nashville
- Q. What is the name of the medal presented in Tennessee to State 4-H winners? 4HS
A. The Leula Lee (pronounced EYE-OOO-LA)
- Q. What does TAE4-HW mean? 4HL
A. The Tennessee Association of Extension 4-H Workers
- Q. The White House, Monticello, and Mount Vernon are visited during which 4-H event? 4HA
A. Citizenship Washington Focus
- Q. At which state event do members wear green 4-H sweaters as part of their official dress? 4HA
A. Tennessee 4-H Congress
- Q. What is the name of the organization that administers the 4-H program in Tennessee? 4HH
A. UT Extension (University of Tennessee Extension)
- Q. What is the name of the collective group of officers installed at State 4-H Roundup? 4HL
A. The State 4-H Council
- Q. Which 4-H group actually has adopted a fifth "H"? 4HS
A. The 4-H Honor Club (The "H" of course stands for Honor)
- Q. What is the purpose of the 4-H Clover Bowl in Tennessee? 4HC
A. To acquaint 4-H members with themselves and their surrounding.
- Q. 4-H members in Tennessee are in a sense students at what University? 4HH
A. The University of Tennessee
- Q. What Nashville weather man was a 4-H member from Dyer County, and emceeds the State 4-H History Bowl? 4HH
A. Lelan Statom (Channel 5) (Pronounced LEE-LUN STATE-UM)
- Q. The 4-H Clover Bowl was held for the first time in what county? 4HH
A. Wilson County (1994)
- Q. What is the name of the leadership organization designed for 7th and 8th grade 4-H'ers? 4HL
A. 4-H Honor Club



- Q. Service learning is part of what 4-H project? 4HP
A. Citizenship
- Q. What two organizations served as the forerunners of 4-H in Tennessee? 4HH
A. The Tomato (girls) and Corn Clubs (boys)
- Q. The Clyde M. York 4-H Center is located in what Tennessee town? 4HA
A. Crossville
- Q. Don Bowman made what in 1948, which is handed down each year to the state 4-H Council President? 4HS
A. The Gavel
- Q. What happens if there are no corrections to the minutes? 4HL
A. They "stand approved as read"
- Q. What is the correct size for a 4-H poster? 4HC
A. 14 by 22 inches
- Q. What is the name of the 4-H All-Star officer who serves as the secretary? 4HL
A. The Scribe
- Q. Who is considered to be the first 4-H member in Tennessee? 4HH
A. Mertie Hardin
- Q. Which 4-H officer presides in the President's absence? 4HL
A. The Vice-President
- Q. How many 4-H regions are there in Tennessee? 4HL
A. Three
- Q. What is the award given the 4-H family who has shown "exceptional participation in all phases of 4-H club work?" 4HH
A. The Hale Master 4-H Family
- Q. In what year did the 4-H Camp at Crossville open? 4HH
A. 1950
- Q. What was the first state-wide 4-H event in Tennessee? 4HH
A. State 4-H Roundup (started in 1923 originally called "State Club Camp")
- Q. The Clyde Austin 4-H Center is located in what Tennessee town? 4HA
A. Greeneville
- Q. What is the name of the inspirational ceremony held at the end of each day at 4-H camp? 4HA
A. Vespers
- Q. What were 4-H Agents originally referred to in Tennessee? 4HH
A. Demonstration Agents



- Q. State 4-H winners in Leadership, Citizenship, and Public Speaking are crowned at what 4-H event? 4HA
A. Tennessee 4-H Congress
- Q. At what 4-H event is the 4-H Governor elected? 4HL
A. Tennessee 4-H Congress
- Q. Becoming a better more responsible citizen is taught in which 4-H project? 4HP
A. Citizenship
- Q. Which war helped to initiate the 4-H club program? 4HH
A. World War I
- Q. What is the highest elected office that a 4-H member can obtain in Tennessee 4-H? 4HL
A. State 4-H Council President (Elected at State 4-H Round-Up)
- Q. 4-H members celebrate what product each June? 4HA
A. Milk or Dairy Products (as part of June Dairy Month)
- Q. Name the two Universities are most closely associated with the Tennessee 4-H program? 4HH
A. University of Tennessee and Tennessee State University
- Q. At what 4-H event would you see the changing of the guard of the Unknown Soldier? 4HA
A. Citizenship Washington Focus
- Q. At what 4-H event might members go shopping at the mall and participate in a fashion show? 4HA
A. 4-H Fashion & Design Conference
- Q. What is the All Star motto? 4HS
A. Service
- Q. What 4-H organization was formed in 1953 to raise funds for 4-H in Tennessee? 4HH
A. The Tennessee 4-H Foundation
- Q. What is the most popular 4-H Animal Science project? 4HP
A. Horse
- Q. In which 4-H contest would you actually show someone how to do something? 4HC
A. Demonstrations
- Q. What is the name of the state-wide leadership organization designed for Sr. High 4-H'ers? 4HL
A. 4-H All-Stars
- Q. The Southern Region 4-H Teen Leadership Conference is better known by what acronym? 4HA
A. S-R-T-L-C
- Q. What 4-H event traditionally takes place right after Thanksgiving? 4HA
A. National 4-H Congress



- Q. What is the 4-H slogan? 4HS
A. Learn by Doing
- Q. 4-H is required to be mentioned in a speech in which age levels? 4HC
A. Only Senior High
- Q. What UT sports legend and Basketball Hall of Fame member was a 4-H member in Tennessee? 4HH
A. Pat Head Summitt, Coach of the Lady Vols Basketball Team
- Q. The 4-H program in Tennessee is organized and maintained by what two educational institutions? 4HH
A. The University of Tennessee and Tennessee State University
- Q. Which 4-H officer is in charge of arranging the room for the meeting? 4HL
A. The Vice-President
- Q. What is the name of the inspirational ceremony which takes place at 4-H camp right after sunrise? 4HA
A. Flag Raising
- Q. What is the title of the person who officially heads up the 4-H program in Tennessee? 4HL
A. State 4-H Director
- Q. During what time of the year does Tennessee 4-H Congress take place? 4HA
A. Spring
- Q. What is another word used to dismiss a 4-H club meeting? 4HL
A. Adjourn (UH JURN)
- Q. In what state was the 4-H All-Star program first organized? 4HH
A. West Virginia
- Q. Which 4-H symbol by law cannot be covered in any way by text or graphics when printed? 4HS
A. The 4-H Clover
- Q. What is the name of the building on the UT campus in which the State 4-H Office is located? 4HL
A. Morgan Hall
- Q. 4-H members pledge their hands to what? 4HS
A. Larger Service
- Q. At what senior 4-H event would you take a college tour? 4HA
A. State 4-H Roundup
- Q. How many adults served as 4-H Volunteers each year in Tennessee? 4HL
A. About 15,000 (If they guess a number, it needs to be between 14,000 and 16,000.)
- Q. Which 4-H officer has the duty of checking the roll? 4HL
A. The Secretary (although this is often done silently)



- Q. What 4-H activity deals with the learning of decision making skills? 4HC
A. Judging Teams
- Q. Any person, other than an agent, who works with 4-H members in any capacity is called a what? 4HL
A. A 4-H Volunteer Leader
- Q. At what grade in school can 4-H Honor Club members become All Stars? 4HL
A. Current 9th Grade Members
- Q. A demonstration should last how long? 4HC
A. Three to Five Minutes
- Q. In what grade is 4-H first offered? 4HE
A. 4th Grade
- Q. In which pledge would you face the group not the flag? 4HS
A. The 4-H Pledge
- Q. This is the smallest 4-H project, although this fact may "bug" some people. 4HP
A. Entomology



- Q. Why do mice constantly gnaw on something? T1.3-5a
A. Because their teeth never stop growing
- Q. What stinging insect has invaded southern Tennessee recently? T4.6-8f
A. Fire Ant
- Q. In what complex is the Tennessee Department of Agriculture located? T5.3-5f
A. Ellington Agricultural Center in Nashville
- Q. What is the most common term for a female goat? T2.3-5d
A. Doe
- Q. Which state produces the most milk? T2.3-5d
A. Wisconsin (America's Dairyland!)
- Q. Arabian, Belgian, and Morgan are breeds associated with what species of animal? T2.3-5d
A. Horses
- Q. Which state produces the most wheat? T5.3-5e
A. Kansas (America's breadbasket)
- Q. What are Rat-L-Traps, Jitterbugs, and Rooster Tails? T1.6-8c
A. Artificial fish baits
- Q. What abundant resource in Tennessee makes beef cattle production profitable? T1.3-5e
A. Pasture
- Q. What does it mean for an animal to be polled? T2.3-5d
A. No horns
- Q. What is the average life span for a horse? T2.3-5d
A. 25 years
- Q. Which grand division of the state depends the most on the row crop part of Agriculture? T3.6-8i
A. West Tennessee
- Q. Where in Tennessee does the nation's largest population of bald eagles winter? T1.3-5a
A. Reelfoot Lake
- Q. What state produces the most corn? T5.3-5e
A. Iowa
- Q. What is the most common grass found in Tennessee? T1.3-5e
A. Fescue
- Q. What is the art of riding horseback called? T2.3-5d
A. Horsemanship



- Q. Name my AG Career: I am a person entrusted with the protection and preserving of a parkland...particularly as it relates to trees? T5.3-5b
A. Forest Ranger
- Q. Sheep produce what kind of meat? T2.3-5d
A. Lamb or mutton
- Q. What soils are a mixture of clay, silt, and sand making them easy to cultivate? T1.3-5e
A. Loams or Loamy Soils
- Q. What type of plant can produce its own nitrogen? T1.3-5e
A. Legume
- Q. What major crop, grown mainly in Arkansas and Louisiana, is grown in a flooded field? T5.3-5e
A. Rice
- Q. In what town is the Tennessee Department of Agriculture located? T5.3-5f
A. Nashville
- Q. What are you doing if you dock a sheep's tail? T2.3-5d
A. Cutting it off
- Q. A cross between a domesticated beef animal and the American Bison is called what? T2.3-5d
A. Beefalo
- Q. What is another name for grain sorghum? T1.3-5e
A. Milo
- Q. Which soil characteristic is the most important to know when putting in a septic system? T1.3-5e
A. The percolation rate or "Perc Rate" (how fast liquid can travel or perc through the soil)
- Q. What is the term for the group of baby pigs a sow has? T2.3-5d
A. Litter
- Q. What is the term used to describe the change of plant species on a piece of ground over a period of years? T1.6-8c
A. Plant Succession
- Q. What type of tree is most prevalent on the summit of Clingman's Dome? T1.6-8c
A. Frasier Fir
- Q. What is the official sport fish of Tennessee? T1.3-5a
A. Largemouth bass
- Q. What is meant by the word gestation? T2.3-5d
A. Length of pregnancy
- Q. What is the most valuable tree in Tennessee's forests? T1.6-8c
A. Black Walnut (Used in furniture making)



- Q. Name my AG Career: I study better ways to manage fish in ponds, streams and even oceans. T5.3-5b
A. Fish Biologist
- Q. What is the Tennessee state agricultural insect? T4.6-8f
A. Honeybee
- Q. What is an invasive species? T2.6-8c
A. An organism not native to an area
- Q. What Grand Division of Tennessee grows the most cotton? T3.6-8i
A. West Tennessee
- Q. Name my AG Career: I work for UT, but I work with people in a county helping them with all things Agriculture. T5.3-5b
A. Extension AG Agent
- Q. What does organic matter help build in a soil? T1.3-5e
A. Topsoil
- Q. What is the most popular Christmas tree grown in Tennessee? T1.6-8c
A. White Pine
- Q. What are the two state insects of Tennessee? T4.6-8f
A. Firefly and the Lady Bug
- Q. What is the official state game bird of Tennessee? T1.3-5a
A. Bobwhite quail
- Q. What kind of college was formed to study Agriculture, and was funded by the sale of western lands given each state by the federal government? T5.3-5f
A. Land-Grant University
- Q. What is the general term for the working in an industry that is sustainable, renewable and contributes to the quality of the environment? T1.6-8c
A. "green" industry
- Q. What is the name of the feed that is highest in energy content? T1.3-5e
A. Corn
- Q. What part of a horse bridle fits in the horse's mouth? T4.3-5a
A. The bit
- Q. What family of insects causes farmers the most economic loss? T4.6-8f
A. Lepidoptera (moth and butterflies) (pronounced LEP UH DOP TUH RA)
- Q. Which one of Tennessee's forage grasses is infected with an "Endophyte Fungus?" T1.3-5e
A. Fescue



- Q. What is the name of the stomach in cows, sheep and goats that is responsible for them being able to eat and live on hay and grasses? T2.3-5d
A. Rumen
- Q. What are the thick deposits of windblown soil found in West Tennessee called? T1.3-5e
A. Loess (pronounced L-UH-SSS)
- Q. What farm group not only serves as an insurance agency, but also a nationwide farm lobby? T5.3-5f
A. Farm Bureau
- Q. Where is the largest pecan tree in the world located? T3.6-8i
A. Natchez Trace State Park
- Q. One square foot of lumber one inch thick is the definition of what measurement? T3.6-8i
A. Board Foot
- Q. What are the most efficient farm animals in terms of pounds of gain to pounds of feed? T2.3-5d
A. Chickens or Poultry
- Q. What crop do we use to produce margarine? T1.3-5e
A. Soybeans
- Q. What percentage of Potassium is contained in a 100 pound bag of 6-12-12 fertilizer? T2.6-8c
A. 12 percent
- Q. What is defined as an agent or chemical used to destroy pests? T1.3-5e
A. Pesticides
- Q. What trees have a pome? T1.6-8c
A. Apple Tree or Pear Tree
- Q. What farm animal is most susceptible to pseudorabies (pronounced SUE-DOE-RAY-BEES)? T2.3-5d
A. Swine or Hogs
- Q. A sirloin steak comes from what area of the animal? T2.3-5d
A. Hip
- Q. Name my AG Career: I design new equipment to be used in farming and agriculture? T5.3-5b
A. AG. Engineer
- Q. What invasive insect which resembles a small June bug, preys on Tennessee's fruit trees? T4.6-8f
A. The Japanese Beetle
- Q. What does it mean for a tree to be tolerant? T1.6-8c
A. It means it will grow fairly well in shade.
- Q. Interspersion (pronounced EN-TER-SPUR-ZHUN) is necessary for many small animals such as quail and rabbit. What is interspersion? T1.6-8c
A. Mixing of food and cover



- Q. What is the most fertile part of the soil? T1.3-5e
A. Topsoil
- Q. What part of the dairy cow holds and stores the milk? T2.3-5d
A. Udder
- Q. What do the letters USDA mean? T5.3-5f
A. United States Department of Agriculture
- Q. Name my AG Career: I work for USDA and I map soils and intrepret their productivity. T5.3-5b
A. Soil Scientist
- Q. What pest has attacked and destroyed many acres of pine trees in Tennessee? T4.6-8f
A. Southern Pine Beetle
- Q. Which state produces the most cotton? T5.3-5e
A. Texas (The Cotton Bowl!)
- Q. What farm animal farrows its young? T2.3-5d
A. Swine or hogs
- Q. What is the largest rodent found in Tennessee? T1.3-5a
A. The beaver (also the largest in North America)
- Q. What fish is generally the goal of a day of fly casting? T1.3-5a
A. Trout
- Q. Where does the University of Tennessee test new varieties and farming procedures? T5.3-5f
A. UT AG Research Centers (would also accept Experiment Stations)
- Q. What was the first crop raised by settlers in Middle Tennessee? T4.6-8a
A. Corn
- Q. What is the term for growing a plant in a water medium? T4.3-5d
A. Hydroponic
- Q. In what month do the dogwood trees usually bloom in Tennessee? T1.6-8c
A. April
- Q. What does the agriculture term IPM stand for? T2.6-8c
A. Integrated Pest Management
- Q. How much does a bale of cotton weigh? T4.3-5a
A. 480 pounds
- Q. In what structure is silage stored? T4.3-5a
A. Silo



- Q. Which Grand Division of Tennessee produces the most hogs?
A. West Tennessee T3.6-8i
- Q. What is the most popular breed of dairy cattle?
A. Holstein T2.3-5d
- Q. A plant that sprouts as a single leaf is called?
A. Monocot T1.3-5e
- Q. Which southern state has the most State Forests?
A. Tennessee T5.3-5e
- Q. Why is UT Extension called the Cooperative Extension Service?
A. Cooperation between Federal, State, and County governments T5.3-5f
- Q. The Red Cedar is in reality what type of tree?
A. Juniper T1.6-8c
- Q. What introduced weed is known as the vine that ate the south?
A. Kudzu (pronounced CUD ZOO) T2.6-8c
- Q. What pigs are bought small and then fed to market weight?
A. Feeder pig T2.3-5d
- Q. What type of gardening uses no chemical pesticides?
A. Organic Gardening T2.6-8c
- Q. What Mexican insect spread into the southeastern U.S. causing millions of dollars in damages to cotton crops?
A. Boll Weevil T4.6-8f
- Q. Which state produces the most hogs?
A. Iowa T5.3-5e
- Q. When Tennessean William Haskell Neal produced Neal's Paymaster corn, what was the new variety's great advantage?
A. Two ears per stalk as compared to one ear on the old varieties T4.3-5c
- Q. Tennessee ranks number one in the country in the production of what wooden item?
A. Pencils T3.6-8i
- Q. People from what country are largely responsible for the spread of domesticated horses world-wide?
A. Egypt T4.6-8a
- Q. A female hog before she has pigs is called a what?
A. Gilt T2.3-5d
- Q. Where would you find an A, B, and C horizon?
A. In a soil profile T1.3-5e



- Q. What does the agriculture term "outcrops" refer to? T1.3-5e
A. Large rocks sticking up out of the ground hindering cultivation of the land
- Q. What are the only insects that produce food for humans? T4.6-8f
A. Honeybees
- Q. What is the term used to describe the last possible date a particular area can expect a killing frost? T4.3-5d
A. Frost free date
- Q. What does a Hognose Snake do when it is threatened? T1.3-5a
A. Plays dead
- Q. What is the natural process by which pond or lake water circulates? T1.6-8c
A. Turnover
- Q. Name my AG Career: I study plants and the numerous ways they can be cultivated and utilized. T5.3-5b
A. Agronomist
- Q. Name the country where the Clydesdale originated. T2.3-5d
A. Scotland
- Q. What is the principle ingredient in the insecticide DiPel or BT? T2.6-8c
A. Bacteria (an organic pesticide)
- Q. What is meant by a milk deficit state? T5.3-5e
A. Consume more milk than it produces
- Q. Name my AG Career: I shoe horses. T5.3-5b
A. Farrier
- Q. What noisy insect becomes a pest in the state about every thirteen years? T4.6-8f
A. Cicada (pronounced sa-k-dah)
- Q. How many times is a dairy cow milked each day? T2.3-5d
A. Two times
- Q. What is the proper name for a single freshwater shrimp? T1.3-5a
A. Prawn
- Q. What does the term forage crop mean? T1.6-8c
A. A crop providing roughage (Pasture, Hay, and Silage)
- Q. Name the two types of foxes found in Tennessee. T1.3-5a
A. Red Fox and Gray Fox
- Q. Aquaculture is the science of producing what product? T1.3-5a
A. Fish



- Q. The average rainfall for Tennessee would be about how many inches per year? T1.6-8c
A. About 50 inches per year
- Q. Lady bugs are beneficial insects because they prey on what farm pest? T2.6-8c
A. Aphids
- Q. What crop in Tennessee is referred to as "White Gold?" T3.6-8i
A. Cotton
- Q. What does the term "marbling" mean as it relates to meat? T3.6-8g
A. Amount of fat within the meat
- Q. Name my AG Career: I specialize in home gardens and flowering plants. T5.3-5b
A. Horticulturalist
- Q. What are we doing when we are irrigating (Pronounced EAR-UH-GATE-ING) a field? T4.3-5d
A. Watering the field
- Q. Of the three types of soil, Sand, Silt and Clay, which one is the stickiest? T1.3-5e
A. Clay
- Q. What is the term used to describe the loss of topsoil? T1.3-5e
A. Erosion
- Q. A female hatchling chicken is called a what? T2.3-5d
A. Pullet
- Q. What is the Tennessee state butterfly? T4.6-8f
A. Zebra Swallowtail
- Q. Which county in Tennessee has the highest population of horses in the state? T3.6-8i
A. Rutherford County
- Q. What percentage of Nitrogen is contained in a 50 pound bag of 6-12-12 fertilizer? T2.6-8c
A. Six percent
- Q. What type of crop is grown simply to conserve and develop the soil? T1.6-8c
A. A "cover" crop
- Q. What is found in some soils that stop root depth and effect homesite selection? T1.3-5e
A. Bedrock
- Q. What is the term used to describe the rapid movement of soil and rock in response to gravity? T1.3-5e
A. A landslide
- Q. What is the advantage of Jersey dairy cattle over the Holstein breed? T2.3-5d
A. Higher amount of butterfat in the milk



- Q. Name my AG Career: I work for the state of Tennessee and I protect and conserve wildlife?
A. Wildlife Officer or Game Warden T5.3-5b
- Q. What is defined as the wise use of natural resources over time?
A. Conservation T1.6-8c
- Q. Name my AG Career: I maintain trees and shrubs by trimming and pruning them.
A. Arborist (R-BOAR-IST) T5.3-5b
- Q. What is the family of plants containing watermelons, squash, and cucumbers?
A. Cucurbits (CUE- CURB- ITS) T1.3-5e
- Q. How many pounds of honey does a typical bee hive produce in a year?
A. More than 400 lbs T4.6-8f
- Q. What does the animal nutritional term TDN stand for?
A. Total Digestible Nutrients T4.3-5d
- Q. What is the forest insect which spreads its range by hitchhiking on recreational vehicles?
A. Gypsy Moth T4.6-8f
- Q. What is the term for the soft furry covering on a deer's antlers?
A. Velvet T1.3-5a
- Q. How many state forests does Tennessee have?
A. 15 T1.6-8c
- Q. What Tennessee county is renowned for its orchards and nurseries?
A. Warren County T3.6-8i
- Q. How many frost-free days are required to grow cotton?
A. 200 T1.6-8c
- Q. What crop has the most harvested acres in Tennessee?
A. Hay T1.3-5e
- Q. What grand division of the state has the most Dairy Cattle?
A. East T3.6-8i
- Q. What is the term for plowing or cultivating around the hill as opposed to up and down?
A. Farming on the Contour T1.6-8c
- Q. What "popular" Tennessee tree is really a magnolia?
A. Tulip poplar T1.6-8c
- Q. What milk processor in Athens, Tennessee has had their ice cream ranked "one of the best in the world" by TIME Magazine?
A. Mayfield Dairy Farms T3.6-8i



- Q. This is the measure of density of a forest stand. T3.6-8i
A. Basal Area Factor (pronounced BASE-UL)
- Q. What is the term for the natural breaking-down of rocks? T1.3-5e
A. Weathering
- Q. What is mixed in soil to raise the pH? T2.6-8c
A. Lime
- Q. What Grand Division of Tennessee produces the most Corn? T3.6-8i
A. West Tennessee
- Q. Why would you use a fungicide? T2.6-8c
A. Kill a fungus or blight
- Q. Which Grand Division of Tennessee produces the most alfalfa? T3.6-8i
A. Middle
- Q. What does the agriculture term TCA stand for? T5.3-5f
A. Tennessee Cattleman's Association
- Q. What grand division of the state has the most beef cattle? T2.3-5d
A. Middle
- Q. Why would you use a herbicide? T2.6-8c
A. To kill weeds
- Q. What does TWRA stand for? T5.3-5f
A. Tennessee Wildlife Resources Agency
- Q. What western mammal has drifted into Tennessee causing much alarm to farmers? T1.3-5a
A. Coyote
- Q. Tennessee's Institute of Agriculture is an important part of what university? T5.3-5f
A. The University of Tennessee
- Q. In Tennessee what do the letters TDA stand for? T5.3-5f
A. Tennessee Department of Agriculture
- Q. Caterpillars are the larvae for what type of insect? T4.6-8f
A. Butterflies or Moths (either is correct)
- Q. What is applied to soil to increase soil nutrients and crop yield? T2.6-8c
A. Fertilizer
- Q. How is the majority of livestock sold in the United States? T2.3-5d
A. Public Auction



- Q. The wool from one sheep is called what? T2.3-5d
A. Fleece
- Q. A wide stripe down the face of a horse would be called a what? T2.3-5d
A. A Blaze
- Q. What is the agriculture term for a round bale of hay in a big plastic bag? T4.3-5d
A. Haylage (Pronounced HAY LIJ)
- Q. Leather is a by-product from what agricultural industry? T2.3-5d
A. Cattle (both Beef and Dairy)
- Q. What official heads up the USDA? T5.3-5f
A. The Secretary of Agriculture
- Q. Who enforces the sale of Tennessee Game and Fishing Licenses? T5.3-5f
A. TWRA (Tennessee Wildlife Resources Agency)
- Q. What percentage pf Phosphorous is contained in a 50 pound bag of 6-12-12 fertilizer? T2.6-8c
A. 12 percent



- Q. The right to bear arms is ensured in what US Constitutional Amendment? 8.33
A. 2nd Amendment
- Q. Which Article of the US Constitution dictates that no religious affiliation or lack thereof is required to hold public office in the United States? 8.33
A. Article 6
- Q. Who appoints the Tennessee Attorney General? 8.90
A. The Tennessee Supreme Court
- Q. What is the approximate size, in population, of a US Congressional District? 8.33
A. 700,000 people
- Q. In Tennessee, who has the duty in each county of determining the value of land for tax purposes? 8.90
A. Assessor (or Assessor of Property) Pronounced UH SESS OR
- Q. The US Speaker of the House is part of which branch of government? 8.33
A. The Legislative Branch
- Q. Any proposed amendment to the US Constitution must pass by what margin in both chambers of government? 8.33
A. two-thirds majority (2/3)
- Q. What part of the US Constitution answers the questions as to why we are doing this and who we are doing it for? 8.33
A. The Preamble
- Q. Having separate water fountains for black and white citizens was an example of what type law? 8.90
A. Jim Crow Laws
- Q. Who presided over the Constitutional Convention in 1787? 8.31
A. George Washington
- Q. Which House of Congress includes Territories and the District of Columbia, but in a non-voting capacity? 8.33
A. The US House of Representatives
- Q. The 7th Amendment to the US Constitution guarantees the right to a jury trial in any civil suits involving at least how much money? 8.33
A. \$20
- Q. How many justices serve on the Tennessee State Supreme Court? 8.90
A. 5
- Q. What is the term used to describe the process of how seats are distributed among states in the US House of Representatives? 8.33
A. Apportion or Apportionment (UH-PORE-SHUN or UH-PORE-SHUN-MUNT)
- Q. When a person "takes the 5th" it means he doesn't have to do what? 8.33
A. Testify against himself in a court of law



- Q. What document starts with these words "Whereas, the people of the territory of the United States south of the River Ohio..."? 8.90
A. The Tennessee State Constitution
- Q. What Amendment repealed the "Three-Fifths" clause in the US Constitution? 8.90
A. The 14 Amendment
- Q. What was the purpose of the 13th Amendment to the US Constitution? 8.90
A. to Abolish Slavery in America
- Q. Who serves as the Speaker of the United States Senate? 8.33
A. The Vice-President of the United States (Would accept the actual person)
- Q. What title is conferred upon the leader of the U.S. House of Representatives? 8.33
A. Speaker of the House
- Q. How many electoral votes does it take to be elected President of the United States? 8.33
A. 270 (as of 2008)
- Q. After a proposed amendment clears both the House and Senate, how many states have to ratify it in order for it to become law? 8.33
A. three-fourths or 38 of the 50 states.
- Q. Having to take a test in order to become a registered voter was an example of what type of law? 8.90
A. Jim Crow Laws
- Q. What was the "Three-Fifths" Compromise in the US Constitution? 8.31
A. Counted slaves at a 3/5 proportion in the population
- Q. Which Amendment acts to ensure individuals are afforded fundamental rights even if not mentioned in the US Constitution? 8.33
A. 9th Amendment
- Q. Article 1 of the US Constitution defines what branch of government? 8.33
A. The Legislative Branch
- Q. Which Article defined how many states had to ratify the US Constitution in order for it to go into effect? 8.33
A. Article 7
- Q. What does it take to override a Presidential Veto? 8.33
A. two-thirds majority (2/3) vote in both Houses.
- Q. What is the fewest number of US Representatives that any state has in Congress? 8.33
A. 1 (Seven states just have 1)
- Q. What does the word Posterity (PAHS-STAIR-UH-TEE) in the Preamble mean? 8.33
A. future generations of people



- Q. What particular group of people did the 14th Amendment seek to protect? 8.90
A. Recently Freed Slaves
- Q. Unreasonable searches and seizures is prohibited by what US Constitutional Amendment? 8.33
A. 4th Amendment
- Q. What is the highest ranking elected official in Tennessee? 8.90
A. The Governor
- Q. Freedom of Religion can be found in what amendment? 8.33
A. 1st Amendment
- Q. What branch of government interprets the laws? 8.33
A. Judicial
- Q. What vote is required for the US House and Senate to have in order to pass a bill? 8.33
A. Simple Majority of members present
- Q. Which part of Congress is referred to sometimes as the "Upper Chamber?" 8.33
A. The US Senate
- Q. Who is the chief law enforcement officer and lawyer for the state of Tennessee? 8.90
A. The State Attorney General
- Q. Which Article of the US Constitution outlines trial by Jury in the State where the crime was committed? 8.33
A. Article 3
- Q. How long did the 1870 Tennessee Constitution last before being modified? 8.90
A. 83 years (According to the Blue Book this is some sort of a world record)
- Q. Having separate schools for black and white children was an example of what type law? 8.90
A. Jim Crow Laws
- Q. During what war was the 13th Amendment to the US Constitution passed? 8.90
A. The Civil War
- Q. Which branch of government is responsible for signing bills into law? 8.33
A. The Executive Branch
- Q. The US Secretary of State is part of which branch of government? 8.33
A. The Executive Branch
- Q. How old do you have to be in order to run for governor of the State of Tennessee? 8.90
A. 30
- Q. Freedom to peaceably assemble is ensured in what US Constitutional Amendment? 8.33
A. 1st Amendment



- Q. How many United States Senators does each state have? 8.33
A. Two (2)
- Q. What is the name of the official manual of Tennessee State Government? 8.90
A. Tennessee Blue Book
- Q. When the President chooses not to sign a bill passed by Congress, this presidential act is called what? 8.33
A. A Veto (pronounced VEE-TOE)
- Q. What was the true impact of the Great Compromise at the Constitutional Convention? 8.31
A. Two Houses of Government (House and a Senate)
- Q. What Amendment to the US Constitution limited the ability of former Confederate leaders to hold federal office? 8.90
A. The 14 Amendment
- Q. What principal within our US Constitution divides the influence among different entities within our Government? 8.33
A. Separation of Powers
- Q. What does the constitutional term "ratify" mean? 8.33
A. to give formal consent to
- Q. Who presides over the US House of Representatives? 8.33
A. The Speaker of the House
- Q. What branch of government enforces the laws? 8.33
A. Executive
- Q. Which Article of the US Constitution outlines the crime of Treason? 8.33
A. Article 4
- Q. Founding fathers who were opposed to a strong central government were referred to as what? 8.32
A. Anti-Federalists
- Q. How often do members of the Tennessee Supreme Court face a yes-no vote? 8.90
A. Every 8 years
- Q. What is the fewest electoral votes any state has? 8.33
A. 3 (seven states and DC have three)
- Q. Section 3 of Article 1 of the US Constitution deals with what part of government? 8.33
A. The US Senate
- Q. What Amendment to the US Constitution shut down the Jack Daniels Distillery in Lynchburg, Tennessee? 8.90
A. The 18 Amendment



- Q. What is literally the “Highest Court in the Land?” 8.33
A. The Supreme Court
- Q. To enfranchise all the people in Tennessee and reorganize the judiciary were the two great issues of what? 8.90
A. The Tennessee Constitution Convention of 1870
- Q. What do you call a group of citizens called together to hear a legal case? 8.33
A. Jury
- Q. Freedom to speedy trial is ensured in what US Constitutional Amendment? 8.33
A. 6th Amendment
- Q. Which Article of the US Constitution promises to protect all states from invasion by a foreign power or entity? 8.33
A. Article 4
- Q. The right to an attorney for any accused person is guaranteed by what US Constitutional Amendment? 8.33
A. 6th Amendment
- Q. With the exception of a veto, what is the final act in a bill becoming law as outlined by the US Constitution? 8.33
A. The President sign's it into Law.
- Q. What branch of government determines if a law is unconstitutional? 8.33
A. The Judicial Branch
- Q. How many state representatives serve in the Tennessee General Assembly? 8.90
A. 99
- Q. Which Article of the US Constitution outlines the powers of Vice-President? 8.33
A. Article 2
- Q. Section 4 of Article 2 defines what action that can be taken against a sitting President for actions such as Treason or Bribery? 8.33
A. Impeachment
- Q. Confirming cabinet members and supreme court nominees are ways that the Senate "checks and balances" the power of what other branch of government? 8.33
A. The Executive Branch
- Q. How many electoral votes are allocated to Tennessee? 8.33
A. Eleven (11)
- Q. What is the judicial term for abstaining from participating in a legal proceeding because of a conflict of interest in the case? 8.90
A. Recuse (REE-CEWS)



- Q. Freedom of the Press is ensured in what US Constitutional Amendment? 8.33
A. 1st Amendment
- Q. What Amendment to the US Constitution banned the payment of any debt owed by the Confederate government? 8.90
A. The 14 Amendment
- Q. Laws designed to separate and limit full rights to black citizens are referred to as what? 8.90
A. Jim Crow Laws
- Q. Founding fathers who were in favor of a strong central government were referred to as what? 8.32
A. Federalists
- Q. Section 2 of Article 1 of the US Constitution deals with what part of government? 8.33
A. The US House of Representatives
- Q. How many votes do you need to pass a bill on the floor of the Tennessee State Senate? 8.90
A. 17
- Q. According to Article 2 of the US Constitution, how old must a person be to run for President? 8.33
A. 35 Years of Age
- Q. What Amendment to the US Constitution guaranteed full citizenship to anybody born on American soil? 8.90
A. The 14 Amendment
- Q. Striking down an unfair law would be one way the Supreme Court "checks and balances" the power of what other branch of government? 8.33
A. The Legislative Branch
- Q. What is the title of someone who is in charge of one of the departments of Tennessee State government? 8.90
A. Commissioner
- Q. What Amendment to the US Constitution prohibiting states from passing unfair laws? 8.90
A. The 14 Amendment
- Q. Having soldiers quartered in your home during peacetime is prohibited by what US Constitutional Amendment? 8.33
A. 3rd Amendment
- Q. What is the term of office for Tennessee's governor? 8.90
A. Four years
- Q. What was proposed to blend the Virginia and the New Jersey plan into The US Constitution? 8.31
A. The Great Compromise
- Q. What is a simple definition of the Constitutional term Article? 8.33
A. Part



- Q. Article 2 of the US Constitution defines what branch of government? 8.33
A. The Executive Branch
- Q. Which part of Congress is referred to sometimes as the 'Lower Chamber?'" 8.33
A. The US House of Representatives
- Q. According to the Tennessee Constitution, what body must convene in all three grand divisions of the state? 8.90
A. The Tennessee Supreme Court
- Q. Any proposed amendment to the US Constitution must have at least how many votes in the senate in order to move forward? 8.33
A. 67 votes (2/3 of 100)
- Q. According to Article 4 of the US Constitution, you can't commit a crime in one state and do what? 8.33
A. Flee or hide in another state.
- Q. How long did the Tennessee Constitution Convention of 1870 last? 8.90
A. 39 Days
- Q. Article 3 of the US Constitution defines what branch of government? 8.33
A. The Judicial Branch
- Q. Being tried two times for the same crime is prohibited by what US Constitutional Amendment? 8.33
A. 5th Amendment
- Q. How do you determine a state's electoral votes? 8.33
A. By adding the number of US Representatives and Senators.
- Q. Which Article of the US Constitution outlines the powers of President? 8.33
A. Article 2
- Q. What is the term of office for a United States Representative? 8.33
A. Two years
- Q. How many Congressional districts does Tennessee have? 8.90
A. 9
- Q. Which Article of the US Constitution outlines the powers of Supreme Court? 8.33
A. Article 3
- Q. What describes how each branch of government limits and shares powers with the other branches? 8.33
A. Checks and Balances
- Q. What was the "Three-Fifths" Compromise in the US Constitution? 8.90
A. Counted slaves at a 3/5 proportion in the population



- Q. Which Article of the US Constitution outlines and defines the Electoral College? 8.33
A. Article 2
- Q. What document was the precursor to the US Constitution in America? 8.30
A. The Articles of Confederation
- Q. What Amendment to the US Constitution guaranteed the right to vote regardless of race or color? 8.90
A. The 15 Amendment
- Q. How many votes do you need to pass a bill on the floor of the Tennessee State House? 8.90
A. 50
- Q. According to Article 2 of the US Constitution, a person has to be a natural born US Citizen in order to hold what office? 8.33
A. President of the United States
- Q. How many amendments make up the Bill of Rights? 8.32
A. 10
- Q. Article 1 designates that all US Representatives must be what age before taking office? 8.33
A. 25 years of age
- Q. Which state has the largest number of US Representatives? 8.33
A. California (53)
- Q. The President's State of the Union Address is mandated in Section 3 of what Article of the Constitution? 8.33
A. Article 2
- Q. What is the term of office for a Tennessee State Senator? 8.90
A. Four (4) years
- Q. Article 1 designates that all US Senators must be what age before taking office? 8.33
A. 30 years of age
- Q. What is the introductory statement of the US Constitution outlining its fundamental and guiding principles? 8.33
A. The Preamble
- Q. What are the first ten amendments to the US Constitution called? 8.32
A. The Bill of Rights
- Q. Who leads the Supreme Court of the United States? 8.33
A. The Chief Justice
- Q. Freedom of the press is ensured in what US Constitutional Amendment? 8.33
A. 1st Amendment



- Q. What two groups of people were of concern when it came to voting rights at the 1870 Tennessee Constitution Convention? 8.90
A. Former Confederates and former slaves
- Q. What Amendment to the US Constitution prohibits states from discriminating against particular groups of citizens? 8.90
A. The 14 Amendment
- Q. What Amendment to the US Constitution guaranteed that all male citizens over 21 had the right to vote? 8.90
A. The 14 Amendment
- Q. According to the Tennessee Constitution, what is the most Supreme Court Judges any Grand Division of the state may have? 8.90
A. 2
- Q. What does the term enfranchise mean? 8.90
A. Give The right to vote
- Q. Cruel and unusual punishment is prohibited by what US Constitutional Amendment? 8.33
A. 8th Amendment
- Q. Which Article of the US Constitution outlines the powers of Congress? 8.33
A. Article 1
- Q. The Amendment process is outlined in what Article of US Constitution? 8.33
A. Article 5
- Q. What vote does it take to override a governors veto in Tennessee? 8.90
A. A simple majority vote of the legislature
- Q. Which Article of the US Constitution includes the President's Oath of Office? 8.33
A. Article 2
- Q. What Amendment to the US Constitution banned paying slave-owners for the loss of their slaves? 8.90
A. The 14 Amendment
- Q. Who was President when the 13th Amendment to the US Constitution was ratified? 8.90
A. Andrew Johnson
- Q. The United States Supreme Court has how many justices? 8.33
A. 9 including the Chief Justice
- Q. Which article of the US Constitution defines the sovereignty of the United States? (SOV-URN-TEE) 8.33
A. Article 6
- Q. What is another name for the Speaker of the Tennessee State Senate? 8.90
A. Lieutenant Governor



- Q. The Right to Petition the Government is ensured in what US Constitutional Amendment? 8.33
A. 1st Amendment
- Q. What body of government ratifies treaties with other nations? 8.33
A. The US Senate
- Q. What branch of government deals mainly with the creation of laws? 8.33
A. The Legislative Branch
- Q. According to Article 7, how many states had to ratify the Constitution in order for it to go in effect? 8.33
A. 9 states
- Q. In Tennessee, if the governor dies in office, who becomes governor? 8.90
A. The Lieutenant Governor
- Q. What Amendment to the US Constitution prevented any state from prohibiting any of its residents the full privileged of American citizenship? 8.90
A. The 14 Amendment
- Q. According to the US Constitution, what two entities of the Government must work together in order to make a treaty with a foreign power? 8.33
A. The Office of the President and The US Senate
- Q. Which Article of the US Constitution outlines how to make changes and updates to the document? 8.33
A. Article 5
- Q. What is the highest court in Tennessee? 8.90
A. The Tennessee Supreme Court
- Q. What was ratified and went into effect on March 1, 1781? 8.30
A. The Articles of Confederation
- Q. What is the most electoral votes any state has? 8.33
A. California has 55
- Q. Which Amendment ensures that the Federal Government has only powers delegated to it by the Constitution, with all other powers reserved for the states? 8.33
A. 10th Amendment
- Q. What Amendment to the US Constitution guaranteed equal protection under the law? 8.90
A. The 14 Amendment
- Q. Being able to cross examine your accuser during a court case is guaranteed by what US Constitutional Amendment? 8.33
A. 6th Amendment



- Q. Nominating justices to the Supreme Court is one way the President "checks and balances" the power of what other branch of government? 8.33
A. The Judicial Branch
- Q. What is the only type of legal case that the Tennessee Supreme Court must hear? 8.90
A. Death penalty cases
- Q. Members of the US Military are technically members of what branch of government? 8.33
A. The Executive Branch
- Q. The freedoms of speech, religion, and the press, as well as the right to assemble, are outlined in which amendment to the U.S. Constitution? 8.33
A. 1st Amendment
- Q. What happens if a vote is tied in the US Senate? 8.33
A. The Vice-President breaks the tie
- Q. Which early government document failed to provide for a head of state? 8.30
A. The Articles of Confederation
- Q. Which Article of the US Constitution defines the method by which new states are admitted into the Union? 8.33
A. Article 4
- Q. What is the term of office for a United States Senator? 8.33
A. Six years



- Q. What state university was at one time University of Tennessee Junior College?
A. University of Tennessee at Martin (would accept simply UT-Martin) LSED
- Q. What is the term used for when a liquid becomes a soft semi-solid mass?
A. Coagulate THES 5.
- Q. What is the addictive agent found in Tobacco?
A. Nicotine THES 13
- Q. What nutrient builds bones and teeth?
A. Calcium THES 5.
- Q. What state university was at one time known as "T P I?"
A. Tennessee Tech University LSED
- Q. What is the term used to describe the weaving together of three or more cords, wires or string?
A. Braid VA 1.3
- Q. What is the name for vitamin B1?
A. Thiamin (pronounced THY UH MUN) THES 5.
- Q. What is the tool with a sharp point and a small blade that is used to remove stitches from fabric?
A. Seam Ripper VA 1.1
- Q. At what wind speed does a tropical storm become a hurricane?
A. Above 74 mph THES 11
- Q. What natural occurrence kills the most people in the United States?
A. Lightning THES 11
- Q. What is the light proof area used for processing film?
A. Darkroom VA 1.1
- Q. What is the recommended amount of exercise time a child or teenager should get daily?
A. 60 minutes (revised with 2005 new Food Guide Pyramid) THES 4.
- Q. What were "normal" schools?
A. Schools founded to train teachers LSED
- Q. What is the term for getting all of your subject in the photograph?
A. Framing your subject VA 2.3
- Q. What does the term rancid mean?
A. Offensive smell (It STINKS!) THES 5.
- Q. What university in Tennessee was originally known as Grant University?
A. UT Chattanooga LSED



- Q. In sewing, what is the guide or directions for making a specific garment called?
A. Pattern VA 2.3
- Q. What vitamin helps your body utilize calcium better?
A. Vitamin D THES 5.
- Q. Which class of fire occurs in electrical wiring and electronic equipment?
A. Class "C" fire THES 10
- Q. What is a combination of colors that lie next to each other on the color wheel called?
A. Analogous or Related (UH-NAL-UH-GUS) VA 2.1
- Q. Why should a person warm up their muscles with stretching exercises?
A. Cold muscles are more prone to injuries THES 4.
- Q. What is a chemical compound essential to good nutrition and bone structure?
A. Mineral THES 5.
- Q. What is the number one state in the United States for SPAM consumption?
A. Hawaii THES 5.
- Q. What is the recommended amount of time for proper handwashing?
A. 20 seconds THES 2.
- Q. Concerning interior design, what is the meaning of the word emphasis?
A. Center of interest VA 2.3
- Q. What is the name of a paper or board with openings that let paint or ink through to make a design?
A. Stencil VA 1.1
- Q. What is the term for something that cannot be seen through?
A. Opaque VA 2.1
- Q. Exercise makes your bones what?
A. Stronger THES 4.
- Q. Which type of cancer kills the most people in the United States?
A. Lung Cancer THES 9.
- Q. Carbohydrates provide how many calories per gram.
A. 4 THES 5.
- Q. What nutrient helps keep the body temperature at a normal level?
A. Water THES 5.
- Q. What color is defined as a pale or light purple?
A. Lavender or Lilac VA 2.1



- Q. What is the statement issued when conditions are favorable for a Tornado to occur? THES 11
A. Tornado Watch
- Q. This part of the UT System does not have any undergraduate students but houses the UT School of Medicine and Dentistry? LSED
A. The University of Tennessee at Memphis
- Q. What is a substance that prevents bacterial growth called? THES 9.
A. Antibiotic
- Q. U. T. was officially named the University of Tennessee in 1879. What was its' name immediately prior to this change? LSED
A. East Tennessee University
- Q. What is the name of the three-legged supporting stand used to hold a camera steady? VA 1.1
A. Tripod
- Q. In what direction do Tornados generally travel? THES 11
A. Northeast
- Q. What is a list of dishes or foods served at a meal? THES 5.
A. Menu
- Q. What is made by putting many motifs together? VA 2.3
A. Pattern
- Q. What is the name of an art work made by gluing different things down on a flat surface? VA 2.3
A. Collage
- Q. Americans get most of their sodium intake from what ingredient added to foods during processing? THES 5.
A. Salt
- Q. What is skim milk? THES 5.
A. Whole milk with the fat or cream removed
- Q. What food group do dry beans fit into? THES 5.
A. Meat group
- Q. What are the two readings given in a blood pressure? THES 9.
A. Systolic (pronounced SISS-TAH-LIC) and Diastolic (pronounced DIE-ISS-TAH-LIC)
- Q. What is the term for the main object you want in your photograph? VA 2.3
A. Subject
- Q. What is the type of knitting done with a long hooked needle? VA 1.2
A. Crochet
- Q. At what temperature should your refrigerator be set? THES 5.
A. Between 32 degrees and 40 degrees Fahrenheit



- Q. One gram of fat contains how many calories? THES 5.
A. 9
- Q. Which school in the University of Tennessee system is located in West Tennessee? LSED
A. The University of Tennessee at Martin
- Q. What is used in sewing to give shape to a garment by rounding flat fabric to fit curves? VA 1.3
A. Darts
- Q. What vitamin is called the “Sunshine” vitamin? THES 5.
A. Vitamin C (because citrus fruits are a good source of Vitamin C) (also will accept Vitamin D because the body produces Vitamin D when sunlight is absorbed by the skin)
- Q. What is the photographic term for taking a picture with no flash? VA 2.3
A. Existing light photography
- Q. What is the term used to describe two images taken at different times appearing on the same photograph? VA 1.3
A. Double exposure
- Q. What is the cancer causing radioactive gas that can seep into your home from underground? THES 9.
A. Radon
- Q. What is the term for using parts of things to make a shape, form, or pattern rather than making it look real? VA 1.3
A. Abstract
- Q. What state university in Tennessee changed its name in 1994? LSED
A. University of Memphis from Memphis State University
- Q. What is the method of drawing done without any help from any drawing instruments? VA 1.3
A. Freehand
- Q. What Nashville university is located on the grounds of the former home of Adelia Acklen? LSED
(Pronounced ADD-UH-LEE-SH-UH ACK-LYNN)
A. Belmont
- Q. What is an unplanned event that usually results in an injury or damage? THES 10
A. Accident
- Q. What grain is pasta made from? THES 5.
A. Wheat
- Q. What is the term for the removal of water from food? THES 5.
A. Dehydrated
- Q. What is the term for the way a surface feels when touched? VA 2.1
A. Texture



- Q. What term refers to the brightness or dullness of a color?
A. Intensity VA 2.3
- Q. What is the nutrient of food needed to build and repair body tissues?
A. Protein THES 5.
- Q. What is the term for the reduction in the size of particles suspended in a liquid by the use of high pressure?
A. Homogenization (pronounced HUM-AH-GIN-UH-ZAY-SHUN) THES 5.
- Q. What is the first thing you should do upon arriving on the scene of an accident?
A. Secure the scene or make sure the danger is removed or corrected THES 11
- Q. What is the term for the passing of nutrients into the blood stream?
A. Absorption THES 5.
- Q. What is the proper name for deer meat?
A. Venison THES 5.
- Q. What is the normal resting heart rate (heart beats per minute)?
A. 60 to 90 THES 4.
- Q. Your body turns extra protein into what?
A. Fat THES 5.
- Q. What group of diseases is characterized by uncontrolled growth and spread of abnormal cells?
A. Cancer THES 9.
- Q. What type painting is the hardest to clean-up?
A. Oil Painting VA 1.2
- Q. What type of drug is alcohol?
A. Depressant THES 13
- Q. What type of fat is liquid at room temperature?
A. Unsaturated THES 5.
- Q. What is the approximate size of a lightning bolt?
A. Only 3/4 inch THES 11
- Q. What is the most common stitch on a sewing machine?
A. Straight Stitch VA 2.1
- Q. What is the term for introducing an undesirable element?
A. Contamination THES 5.
- Q. What was the first of the "normal" schools to enroll students?
A. Middle Tennessee Normal School LSED



- Q. What class tornado would have winds of 100 miles per hour? THES 11
A. F-1
- Q. What is the grain from which flour is made? THES 5.
A. Wheat
- Q. What radar system has greatly improved the forecasting of tornados? THES 11
A. Doppler
- Q. What is the standard number for information? THES 11
A. 411 or 1411
- Q. What type of accident causes the most deaths in the United States? THES 10
A. Motor Vehicles
- Q. In food safety, what is the Danger Zone? THES 5.
A. Temperatures between 40 and 140 degress Fahrenheit (where bacteria multiply fastest)
- Q. What is defined as the influence your contemporaries or friends have upon you? THES 13
A. Peer Pressure
- Q. Most fast foods are high in fat and what? THES 5.
A. Sodium
- Q. Which class of fire involves wood, cloth, and paper? THES 10
A. Class "A" fire
- Q. In sewing, what is pivoting? VA 2.1
A. Turning a corner
- Q. What does the term linear mean? VA 2.1
A. Consisting of lines
- Q. What machine has a needle bar, a throat plate, and a bobbin? VA 1.1
A. Sewing machine
- Q. What kind of camera lens can bring your subject closer to you? VA 1.1
A. Telephoto
- Q. What current university was at one time known as Tennessee A & I State Normal College? LSED
A. Tennessee State University
- Q. What was the original name of East Tennessee State University? LSED
A. East Tennessee State Normal School
- Q. A tornado with wind speeds of 300 miles per hour would be considered what class tornado? THES 11
A. F-5



- Q. What is the nutrient needed to prevent anemia?
A. Iron THES 5.
- Q. What state university was first named Hall-Moody Institute?
A. University of Tennessee at Martin (would accept simply UT-Martin) LSED
- Q. How long does it take the sound of thunder to travel a mile?
A. 5 seconds THES 11
- Q. What are colors called that are opposite each other on the color wheel?
A. Complementary or Contrasting VA 2.1
- Q. How many teaspoons of sugar does a typical 12 ounce can of carbonated soft drink contain?
A. 10 THES 5.
- Q. What is the statement issued when a Tornado has been spotted?
A. Tornado Warning THES 11
- Q. What type drug speeds up the central nervous system?
A. Stimulant THES 13
- Q. What is the maximum time that left-overs can be left out at room temperature?
A. Two (2) hours THES 5.
- Q. Tusculum College, Tennessee's oldest college, is how much older than the University of Tennessee?
A. One Day! (Tusculum founded on Sept. 9, 1794 and the University of Tennessee on Sept. 10, 1794) LSED
- Q. What type drug can be bought without a physician's order?
A. Over-the-Counter Drug THES 13
- Q. What is the term for something which can be seen through clearly, like glass?
A. Transparent VA 2.1
- Q. In canning, what is the space left at the top of the container called?
A. Head Space THES 5.
- Q. What are you required by Tennessee state law to do each time you ride in a car?
A. Wear seat belt THES 10
- Q. What single food item contributes the most dietary fat to the American diet?
A. Hamburger THES 5.
- Q. When sewing what is worn on the middle finger of your sewing hand to push the needle through the fabric?
A. Thimble VA 1.1



- Q. What is the term for the exceptionally high tides which accompany hurricanes causing much damage?
A. Storm Surge THES 11
- Q. What is the name of an object made by hand from your own idea, skill and method?
A. Craft VA 1.3
- Q. What are proteins in food which aid in the maturing of food?
A. Enzymes THES 5.
- Q. Foods high in soluble fiber can lower what substance in your blood?
A. Cholesterol THES 5.
- Q. What should be dialed in case of emergency?
A. 911 THES 11
- Q. In what town is Austin Peay State University located?
A. Clarksville LSED
- Q. Which school in the University of Tennessee is located in East Tennessee?
A. The University of Tennessee at Knoxville LSED
- Q. What type nutrient in food provides energy to the body?
A. Carbohydrates THES 5.
- Q. Which boat has the right of way...a motor boat or a sail boat?
A. The sail boat THES 10
- Q. What national organization issues weather watches and warnings?
A. The National Weather Service THES 11
- Q. What is defined as a substance that, when put into your body, can alter the way your body works?
A. Drugs THES 13
- Q. What does the size of the lens opening of a camera effect?
A. Depth of field in focus VA 1.1
- Q. By law, a beverage that is called a "fruit juice" must contain at least what percent of natural fruit juices?
A. 10 THES 5.
- Q. Where does Tennessee rank in the nation for childhood obesity?
A. Fifth (5th) Highest! THES 9.
- Q. What is an ingredient that helps make bread tender?
A. Shortening THES 5.
- Q. What is the term for the drying out of frozen food that has been improperly packaged?
A. Freezer Burn THES 5.



- Q. When mowing on slopes with a push mower, in which direction should you mow? THES 10
A. Across the slope
- Q. In what town is East Tennessee State University located? LSED
A. Johnson City
- Q. What are the building blocks of protein? THES 5.
A. Amino Acids
- Q. Sewing items needed to finish a project such as buttons, zippers, thread and snaps are also known as what? VA 1.1
A. Notions
- Q. What can be defined as a style that gains sudden popularity and declines quickly? THES 13
A. Fad
- Q. Which tornado would be more dangerous an F-1 or an F-5? THES 11
A. F-5
- Q. What 3 pieces of equipment make up the work triangle in the kitchen? THES 5.
A. Stove, Sink, Refrigerator
- Q. What is the most important tool you have to prevent foodborne illness? THES 2.
A. Good personal hygiene
- Q. What is the term for predicting what the weather will do? THES 11
A. Forecasting
- Q. How often should you have a dental check-up? THES 2.
A. 2 times per year (every 6 months)
- Q. At what temperature should your home freezer be set on? THES 5.
A. 0 degrees Fahrenheit
- Q. What is the unit by which food energy is measured? THES 5.
A. Calorie
- Q. At what time of the day do most lightning deaths occur? THES 11
A. Afternoon
- Q. What kind of paint is made of powder mixed with glue and water? VA 1.2
A. Tempera
- Q. Which state university traces its origins to Blount College founded in 1794? LSED
A. The University of Tennessee
- Q. What is the term for a disease that is transmitted to humans by food? THES 5.
A. Foodborne Illness



- Q. What is the term for the exposing of a liquid to high temperatures allowing for the destruction of harmful organisms without major chemical changes to the substance? THES 5.
A. Pasteurization (pronounced PASS-TER-UH-ZAY-SHUN)
- Q. What do the letters C P R stand for? THES 10
A. Cardiopulmonary Resuscitation (pronounced CAR-DEE-O-PULL-MON-AIR-EE REE-SUS-UH-TAY-SHUN)
- Q. What is the largest voluntary health organization in the world? THES 9.
A. American Cancer Society
- Q. What is the meat from young dairy and beef calves? THES 5.
A. Veal
- Q. What is the type of craft where you paint on a wooden surface? VA 1.3
A. Tole Painting
- Q. What Tennessee city is the home of UTC? LSED
A. Chattanooga (University of Tennessee at Chattanooga)
- Q. What is the part of the scene that appears behind the subject in a photograph? VA 2.1
A. Background
- Q. What does the term motif mean? VA 2.1
A. A single design unit which can be repeated
- Q. What is the safest method to defrost frozen foods? THES 5.
A. In the refrigerator
- Q. Jogging would be considered what type of exercise? THES 4.
A. Aerobic Exercise
- Q. Oranges, lemons, and tangerines are what kind of fruits? THES 5.
A. Citrus Fruits
- Q. What happened to the University of Tennessee at Nashville? LSED
A. It is now part of Tennessee State University
- Q. What is the tool used to study color schemes? VA 2.1
A. The Color Wheel
- Q. What Tennessee university is located near Sewanee, Tennessee? LSED
A. The University of the South
- Q. What is the main use of an emery bag on a pin cushion? VA 1.1
A. To keep needles and pins sharp
- Q. What is a "PFD" as it relates to safety? THES 10
A. A Personal Flotation Device



- Q. What is the most preventable cause of death in our society?
A. Smoking THES 13
- Q. What is the leading cause of infant deaths in Tennessee?
A. Low birth weight THES 9.
- Q. What state university was first named West Tennessee State Normal School?
A. University of Memphis LSED
- Q. Name the two types of dietary fiber?
A. Soluble and Insoluble THES 5.
- Q. As it relates to clothing, why do we use pinking shears?
A. Cutting zig-zag edges on cloth to prevent fraying VA 1.1
- Q. Which class of fire involves flammable liquids, gases, oil and grease?
A. Class "B" fire THES 10
- Q. What is a drug which can only be purchased with a physician's order?
A. Prescription Drugs THES 13
- Q. When studying colors, what are colors called that contain blue?
A. Cool Colors VA 2.1
- Q. What harmful substance is in the paint of most houses built before 1960?
A. Lead THES 10
- Q. What is the name given to an earthquake which follows another earthquake?
A. An Aftershock THES 11
- Q. What type camera lens allows you to frame more area from right to left?
A. Wide-angle lens VA 1.1
- Q. The color teal is defined as what?
A. Dark greenish blue VA 2.1
- Q. At what temperature should cold foods be stored?
A. 40° F or colder THES 5.
- Q. What is a picture that is woven in cloth and hung on a wall?
A. Tapestry (pronounced TAP-ISS-TREE) VA 1.3
- Q. What insect is spreading the West Nile Virus in this country?
A. Mosquito THES 9.
- Q. What is the first responsibility of any baby sitter?
A. Safety of the child THES 10



- Q. What method of cooking comes from the French word meaning "to jump" and is usually done to onions and mushrooms? THES 5.
A. Saute (pronounced SAW-TAY)
- Q. What do azalea, iris, and holly have in common? THES 11
A. They are common house plants which are poisonous
- Q. What type of drug produces sleep or stupor while at the same time relieving pain? THES 13
A. Narcotics
- Q. Where is the University of Tennessee Space Institute located? LSED
A. Tullahoma
- Q. In what town is Middle Tennessee State University located? LSED
A. Murfreesboro
- Q. In emergency preparedness, what do we call the circular diagram containing the words: Prepare, Respond, Recover, Mitigate? THES 11
A. The Disaster Cycle
- Q. In what town is Tennessee Tech University located? LSED
A. Cookeville
- Q. If you add white to a color, you change the color's what? VA 2.1
A. Tint
- Q. What percent of traffic accidents are alcohol related? THES 13
A. 60 percent
- Q. Which school in the University of Tennessee system is located in Southeast Tennessee? LSED
A. The University of Tennessee at Chattanooga
- Q. Emergency responders pay close attention to NOAA weather radio reports in preparing for emergencies. What does NOAA stand for? THES 11
A. the National Oceanic and Atmospheric Administration
- Q. What is the term for the outer edges of a flat surface? VA 2.1
A. Shape
- Q. Dietary guidelines recommend that persons obtain at least what percent of their daily calories from carbohydrates? THES 5.
A. 50
- Q. What is the material called that gives fabric body and shaping? VA 2.3
A. Interfacing
- Q. What is the phone number for the Tennessee Poison Control Center? THES 11
A. 1-800-222-1222 or 1-423-222-1222



- Q. What disease did Jonas Salk eradicate with his vaccine? THES 9.
A. Polio
- Q. To prevent concussions when cycling, what piece of equipment should you wear? THES 10
A. Helmet
- Q. What began in 1775, when the French Government offered a prize for a new method of preserving foods? THES 5.
A. Canning
- Q. What is defined as the ratio of lean body weight to fat body weight? THES 5.
A. Body composition
- Q. What bugs spread Rocky Mountain Spotted Fever and Lyme Disease? THES 9.
A. Ticks
- Q. What university in Tennessee was originally known as Dixie College? LSED
A. Tennessee Tech University
- Q. What is the device in a camera that opens and closes causing the film to be exposed forming an image? VA 1.1
A. Shutter
- Q. Panning, F-Stop, and Depth of Field are terms found in which art form? VA 1.2
A. Photography
- Q. What scale is used to classify a tornado? THES 11
A. Fujita Scale (pronounced FEW GEE TA)
- Q. How are ingredients on a food label listed by nutritional importance? THES 5.
A. From most to least
- Q. Name the only state university in Tennessee named for a former governor? LSED
A. Austin Peay State University
- Q. What can be added to fruit to prevent it from browning in the freezer? THES 5.
A. Ascorbic Acid (pronounced AS-SCORE-BIC)
- Q. If you add black to a color to make it darker, you are changing the color's what? VA 2.1
A. Shade
- Q. What part of the basement would be the safest place to be during a tornado? THES 11
A. Southwest corner (The Northeast corner may pile up with debris)
- Q. What is the term for adding a desirable substance to a food increasing the food value? THES 5.
A. Fortified
- Q. What is the woven edge on either side of a piece of fabric? VA 2.3
A. Selvage



- Q. What mineral helps the thyroid gland to work properly and is usually found in salt?
A. Iodine

THES 5.

- Q. A drug or other substance which produces delusions is called a what?
A. Hallucinogen (pronounced HUH-LOOSE-UN-UH-GIN)

THES 13



- Q. What is the term for molten rock beneath the Earth's surface? 8.ESS2.3
A. MAGMA
- Q. What is the term for molten rock that reaches the Earth's surface? 8.ESS2.3
A. Lava
- Q. A physical phenomenon produced by the motion of electric charge resulting in objects being attracted or repelled? 8.PS2.1
A. Magnetism
- Q. What is the solid material made of minerals which forms the Earth's crust? 8.ESS2.3
A. Rock
- Q. How does Magma change into igneous rock? 8.ESS2.3
A. Cooling and Crystallizing
- Q. In terms of light a piece of wax paper would be considered what kind of material? 1.PS4.2
A. Translucent (Pronounced TRANZ-LOOSE-ENT)
- Q. What is a solution where the solvent is water? CHEM1.
A. an aqueous solution (Pronounced Ack-Que-US)
- Q. What is a solution that is used to keep pH at a constant value? CHEM1.
A. Buffer
- Q. The process by which light slows down as it passes through a thick substance is referred to as what? 1.PS4.2
A. Refraction (Pronounced RE-FRACK-SHUN)
- Q. A material that allows no light to pass through it is considered to be what? 1.PS4.2
A. Opaque (Pronounced O-PAKE)
- Q. What is the speed of light? PHYSIC
A. 186,000 miles per second
- Q. What is the process which forms sedimentary rocks from sediments compressed by the weight of rocks above them? 8.ESS2.3
A. Compaction (Pronounced COME-PACK-SHUN)
- Q. What would you expect the pH of distilled water to be? CHEM1.
A. 7 (It is neutral)
- Q. The process by which light bounces off of a shiny surface is referred to as what? 1.PS4.2
A. Reflection
- Q. What is defined as the rate at which an object covers a certain distance? PHYS.P
A. Speed
- Q. What is a measure of the amount of acidity in the soil or water? CHEM1.
A. pH



- Q. What does the term "flammable" mean?
A. Burns easily
- Q. What is the range for the pH scale?
A. 0-14
CHEM1.
- Q. Which type of rocks were formed by the hardening of lava or magma?
A. Igneous Rocks
8.ESS2.3
- Q. What does the "H" in pH stand for?
A. Hydrogen
CHEM1.
- Q. For an electric current to happen there must be a what?
A. A circuit
8.PS2.1
- Q. In terms of electricity copper wire would be a good example of what?
A. A conductor
8.PS2.1
- Q. What physical property would be a mineral's ability to resist scratching?
A. Hardness
- Q. Shale would be classified as what type of rock?
A. Sedimentary Rocks (SAID-UH-MEN-TARY)
8.ESS2.3
- Q. When the moon and the sun are lined up what would you expect in terms of tides?
A. Higher Tides
8.ESS1.2
- Q. Sandstone would be classified as what type of rock?
A. Sedimentary Rocks (SAID-UH-MEN-TARY)
8.ESS2.3
- Q. What is defined as electricity which moves from one place to another?
A. Electric Current
8.PS2.1
- Q. Which type of rock was at one time another type of rock?
A. Metamorphic Rock (MET-UH-MORE-FIC)
8.ESS2.3
- Q. What form of energy can be defined as the level of activity for the molecules in a given object?
A. Heat Energy
PHYSIC
- Q. What form of energy travels by waves?
A. Radiant Energy
- Q. What is a magnet made of material that keeps its magnetism?
A. Permanent Magnet
8.PS2.1
- Q. In terms of light a piece of clear plastic would be considered what kind of material?
A. Transparent
1.PS4.2



- Q. What form of energy is stored in the bonds atoms and molecules?
A. Chemical Energy
BIO1
- Q. What three things are necessary for a fire to burn?
A. Fuel, Heat, Oxygen
- Q. What does a litmus test indicate?
A. Amount of acidity in a substance
CHEM1.
- Q. At what two moon phases would you expect the tides to be the highest?
A. During Full and New Moon Phases
8.ESS1.2
- Q. When Ice melts in a glass of water this is an example of what form of energy?
A. Heat Energy
PHYSIC
- Q. What is defined as the speed of an object in a given direction?
A. Velocity
PHYS.P
- Q. Unlike poles of a magnet do what?
A. Attract
8.PS2.1
- Q. What is a sudden, rapid shaking of the earth?
A. An Earthquake
8.ESS2.3
- Q. What are rocks which form when sediments are compacted and cemented together?
A. Sedimentary Rocks (SAID-UH-MEN-TARY)
8.ESS2.3
- Q. Any material that attracts iron and material that contains iron is a what?
A. Magnet
8.PS2.1
- Q. An object with a north and south pole which produces a magnetic field is a what?
A. Magnet
8.PS2.1
- Q. What form of energy is released when food is being digested?
A. Chemical Energy
- Q. What form of energy is released when wood burns?
A. Chemical Energy
- Q. What is the term for the regular rise and fall of the ocean's surface influenced by the the moon's gravity?
A. Tides
8.ESS1.2
- Q. In terms of tides, what can be expected as the Moon gets further from the earth?
A. The lower the tides
8.ESS1.2
- Q. What do you call a material which allows electricity to move freely through it?
A. A conductor
8.PS2.1



- Q. Limestone would be classified as what type of rock?
A. Sedimentary Rocks (SAID-UH-MEN-TARY) 8.ESS2.3
- Q. What is defined as electricity which gathers in one place?
A. Static Electricity 8.PS2.1
- Q. What do you call a material which does not allow electricity to move freely through it?
A. An Insulator 8.PS2.1
- Q. What are the three layers of the Earth?
A. Core, mantle and crust 8.ESS2.3
- Q. Gypsum would be classified as what type of rock?
A. Sedimentary Rocks (SAID-UH-MEN-TARY) 8.ESS2.3
- Q. What would you expect the pH of Orange Juice to be?
A. Lower than 7 (Its acidic) CHEM1.
- Q. What is a naturally occurring inorganic solid that has a crystal structure and a chemical composition?
A. A mineral 8.ESS2.3
- Q. What can be simply defines as the study of rocks?
A. Geology 8.ESS2.3
- Q. Salt would be classified as what type of rock?
A. Sedimentary Rocks (SAID-UH-MEN-TARY) 8.ESS2.3
- Q. What is the minimum temperature to which a fuel source must be heated for combustion to occur?
A. the Ignition Temperature
- Q. Granite would be classified as what type of rock?
A. Igneous Rocks (Pronounced IGG-KNEE-US) 8.ESS2.3
- Q. At what two moon phases would you expect the tides to be the lowest?
A. During The First or Third Quarter Moon 8.ESS1.2
- Q. Alike poles of a magnet do what?
A. Repel 8.PS2.1
- Q. Obsidian would be classified as what type of rock?
A. Igneous Rocks (Pronounced IGG-KNEE-US) 8.ESS2.3
- Q. What is caused by the release of energy stored in the earth's crust?
A. An Earthquake 8.ESS2.3
- Q. A higher pH makes a subatance tend to be more what?
A. Basic or Alkaline CHEM1.



- Q. Which types of rocks are formed by the breaking down of other rocks?
A. Sedimentary Rocks (SAID-UH-MEN-TARY) 8.ESS2.3
- Q. A lower pH makes a substance tend to be more what?
A. Acidic CHEM1.
- Q. A material that allows light to pass through easily is considered to be what?
A. Transparent 1.PS4.2
- Q. In terms of light a piece of aluminum foil would be considered what kind of material?
A. Opaque (Pronounced O-PAKE) 1.PS4.2
- Q. What physical property would be a mineral's ratio of mass to volume?
A. Density
- Q. How does igneous rock change into metamorphic rock?
A. Heat and Pressure 8.ESS2.3
- Q. In terms of electricity Plastic or rubber would be a good example of what?
A. An Insulator 8.PS2.1
- Q. How does light travel?
A. In waves 2.PS4.2
- Q. What do you call a material which allows electricity to move freely through it?
A. A conductor 8.PS2.1
- Q. What causes a shock, when touching a metal object, or a friend's ear, after walking across carpet?
A. Static Electricity 8.PS2.1
- Q. What is defined as electricity which gathers in one place?
A. Static Electricity 8.PS2.1
- Q. X-Ray machines give off what kind of energy?
A. Radiant Energy
- Q. In terms of electricity Plastic or rubber would be a good example of what?
A. An Insulator 8.PS2.1
- Q. An acid or base when dissolved in water that then can conduct an electrical current is referred to as what?
A. An Electrolyte CHEM1.
- Q. What would you expect the pH of hand soap to be?
A. Higher than 7 (its basic) CHEM1.
- Q. The way a straw looks bent in a glass of water is an example of what phenomenon?
A. Refraction (Pronounced RE-FRACK-SHUN) 1.PS4.2



- Q. Which two gasses make up the greatest percentage of the atmosphere of the Earth?
A. Oxygen and Nitrogen 7.ESS3.1
- Q. What type magnet uses an electric current to produce its magnetic field?
A. Electromagnet 8.PS2.1
- Q. Marble would be classified as what type of rock?
A. Metamorphic Rock (MET-UH-MORE-FIC) 8.ESS2.3
- Q. What are rocks which form when they are changed by intense heat or pressure?
A. Metamorphic Rock (MET-UH-MORE-FIC) 8.ESS2.3
- Q. What color does a base turn litmus paper?
A. Blue CHEM1.
- Q. How do sedimentary rocks change into Magma?
A. Melting 8.ESS2.3
- Q. What color does acid turn litmus paper?
A. Red CHEM1.
- Q. What physical property would be a mineral's ability to reflect light?
A. Luster
- Q. At what pH would a substance be considered neutral?
A. 7 CHEM1.
- Q. When the moon and the sun are 90 degrees apart what would you expect in terms of tides?
A. Lower Tides 8.ESS1.2
- Q. What do you call a material which does not allow electricity to move freely through it?
A. An Insulator 8.PS2.1
- Q. Pumice would be classified as what type of rock?
A. Igneous Rocks (Pronounced IGG-KNEE-US) 8.ESS2.3
- Q. Tums or Rolaids are household examples of what type substance?
A. Base (if given antacid ask for another word for antacid) CHEM1.
- Q. Basalt would be classified as what type of rock?
A. Igneous Rocks (Pronounced IGG-KNEE-US) 8.ESS2.3
- Q. A material that allows some light but not all to pass through it is considered to be what?
A. Translucent (Pronounced TRANZ-LOOSE-ENT) 1.PS4.2
- Q. What is a form of energy resulting from the existence of charged particles?
A. Electricity 8.PS2.1



- Q. In terms of light what will you find behind an opaque object? 1.PS4.2
A. A shadow
- Q. What happens to light when it strikes a dull surface like a dark curtain? 1.PS4.2
A. It is absorbed
- Q. What would you expect the pH of Ammonia to be? CHEM1.
A. Higher than 7 (its basic)
- Q. What are rocks which form when molten rock cools and hardens? 8.ESS2.3
A. Igneous Rocks (Pronounced IGG-KNEE-US)
- Q. Coal would be classified as what type of rock? 8.ESS2.3
A. Sedimentary Rocks (SAID-UH-MEN-TARY)
- Q. What physical property would be a mineral's color in powdered form?
A. Streak
- Q. In terms of light a stained glass window would be considered what kind of material? 1.PS4.2
A. Translucent (Pronounced TRANZ-LOOSE-ENT)
- Q. What physical property would be a mineral's tendency to split along specific plains of weakness to form smooth flat surfaces?
A. Cleavage
- Q. What would you expect the pH of baking soda to be? CHEM1.
A. Higher than 7 (its basic)
- Q. In terms of tides, what can be expected as the Moon gets closer to the earth? 8.ESS1.2
A. The higher the tides
- Q. If a plant bends in order to get closer to the sun, it is exhibiting what? BIO1
A. Tropism (Pronounced TROPE -IZM)
- Q. What is defined as electricity which moves from one place to another? 8.PS2.1
A. Electric Current



- Q. What separates Middle Tennessee from West Tennessee? 8.39
A. The Tennessee River (Kentucky Lake)
- Q. What major city in Tennessee was founded on Christmas Day, 1779? 8.26
A. Nashville
- Q. What is Tennessee's oldest town? 8.20
A. Jonesborough Established (1778)
- Q. Who published the Knoxville Examiner? 8.90
A. William Francis Yardley
- Q. What was Northern name for the Battle of Shiloh? 8.80
A. Pittsburg Landing
- Q. What Tennessean became the first full admiral to serve in the United States Navy? 8.77
A. David Glasgow Farragut
- Q. What was the last major Civil War Battle fought in Tennessee? 8.80
A. The Battle of Nashville (December 1864)
- Q. What three states meet a short walk from the Cumberland Gap? 8.39
A. Tennessee, Virginia and Kentucky
- Q. Near what Tennessee river was the Battle of Shiloh fought? 8.80
A. The Tennessee
- Q. What early Tennessee Congressman introduced a resolution to abolish West Point? 8.55
A. David Crockett
- Q. Of the American first ladies to come from Tennessee, which was the best educated? 8.61
A. Sarah Childress (Polk) (who was college educated)
- Q. What was a hobby of Andrew Jackson's that would be considered illegal today? 8.55
A. Cockfighting (although we will also accept the answers "betting on horse races" and "dueling")
- Q. What lake was formed in West Tennessee by an earthquake in 1811? 8.53
A. Reelfoot Lake
- Q. The battle of Stones River was fought near what Tennessee city? 8.80
A. Murfreesboro
- Q. What is the name of the trading post located where downtown Chattanooga is today? 8.57
A. Ross's Landing
- Q. What two generals opposed each other at the Battle of Nashville? 8.80
A. George Thomas (USA) and John Bell Hood (CSA)



- Q. What house is located at 4580 Rachel's Lane? 8.55
A. The Hermitage in Nashville
- Q. Who commanded the Federal troops at the Battle of Chattanooga? 8.80
A. U.S. Grant
- Q. Who was called the "Wizard of the Saddle?" 8.77
A. Nathan Bedford Forrest
- Q. What city in Tennessee was described as "where the cotton meets the corn?" 8.72
A. Chattanooga
- Q. In what year was Sequoyah born? 8.56
A. 1776
- Q. Which of the Tennessee presidents was the only U.S. President to completely pay off the national debt? 8.55
A. Andrew Jackson
- Q. The loss of what Civil War Battle forced the Confederacy to evacuate Nashville in 1862? 8.80
A. Fort Donelson
- Q. Who did Lafayette (LA-FEE-ET) come to Tennessee to visit in 1825? 8.55
A. Andrew Jackson
- Q. What was engraved on the inside of Sam Houston's ring? 8.59
A. Honor
- Q. Contrast the different ways that the North and the South named armies during the Civil War. 8.80
A. The North named their armies after nearest body of water... South named after state or area they operated in.
- Q. Where was the original Tennessee Constitution written? 8.39
A. Knoxville in 1796
- Q. Henry not Andrew was the person for which Tennessee's seventh largest city was really named. 8.83
Name the city.
A. Johnson City
- Q. Which of the five Indian tribes were the last to sign the treaty which started their removal and the trail of tears? 8.57
A. The Cherokee
- Q. What was the first county created in West Tennessee? 8.39
A. Hardin County created on November 13, 1819
- Q. What was Tennessee's order of entry to the Union in 1796? 8.39
A. Sixteenth (16th)



- Q. What was the first Territorial capital of the Southwest Territory? 8.39
A. Rocky Mount
- Q. What was the transaction called when the American government bought West Tennessee? 8.39
A. The Chickasaw Purchase (or Jackson purchase)
- Q. What Civil War General was known as "Old Rosy?" 8.77
A. William Rosecrans Commander of the Army of the Cumberland (ROSE-CRANZ)
- Q. Who was the first person to be elected President from a state, which was not one of the original 13 colonies? 8.55
A. Andrew Jackson
- Q. Who led the overland party of settlers to the area which would become Nashville? 8.26
A. James Robertson
- Q. Name the Tennessean who invented the Cherokee alphabet. 8.56
A. Sequoyah (SUH-QWA-YA like the tree)
- Q. Name the Tennessean who has a tree named for him? 8.56
A. Sequoyah (SUH-QWA-YA) The tree is the Giant Sequoia the largest tree in the world
- Q. Who was president during the Nullification Crisis? 8.55
A. Andrew Jackson
- Q. Who commanded the Federal troops at the Battle Horseshoe Bend? 8.43
A. Andrew Jackson
- Q. Who was Old Hickory? 8.55
A. Andrew Jackson
- Q. In 1879 the Tennessee General Assembly changed the named of East Tennessee University to what? 8.90
A. The University of Tennessee
- Q. Who was the principal chief of the Cherokees during the years immediately leading up to the Trail of Tears? 8.57
A. John Ross Chief of the Cherokee
- Q. Contrast the different ways that the North and the South named battles during the Civil War. 8.80
A. The North named their battles after nearest body of water... South named after nearest town or community.
- Q. Who was president when Congress passed the Indian Removal Act of 1830? 8.55
A. Andrew Jackson
- Q. What was the name of the treaty which became the legal basis for the Trail of Tears? 8.55
A. The Treaty of New Echota



- Q. Which future Cherokee chief served in the War of 1812 under Andrew Jackson? 8.57
A. John Ross
- Q. The Carnton Mansion served as a makeshift hospital during the aftermath of what battle? 8.80
A. The Battle of Franklin
- Q. What famous Tennessee home was known by local Indians as "The house with a thousand eyes?" 8.39
A. Blount Mansion (due to the large number of glass windows)
- Q. What was the term used by Andrew Jackson supporters to describe the presidential election of 1824? 8.55
A. The corrupt bargain
- Q. What was the first newspaper in America devoted to the abolition of slaves? 8.66
A. Manumission Intelligencer
- Q. What was the period after the Civil War called in Tennessee? 8.90
A. Reconstruction
- Q. What future Chief of the Cherokee Nation served under Jackson at the Battle of Horseshoe Bend? 8.43
A. John Ross
- Q. The city of Oak Ridge is located near what river? 8.39
A. Clinch River
- Q. The storming of Shy's Hill brought an end to what Civil War Battle? 8.80
A. The Battle of Nashville
- Q. Name the Tennessee city which was considered the center for the southern abolition movement? 8.66
A. Jonesborough
- Q. What Tennessee county actually seceded from the Confederacy? 8.75
A. Scott County
- Q. What was the main crop grown at The Hermitage during Andrew Jackson's time? 8.55
A. Cotton
- Q. What was the name of the long range plan the North had to end the Civil War? 8.80
A. The Anaconda Plan
- Q. What is the name of Andrew Jackson's famous home? 8.55
A. The Hermitage
- Q. What was the newspaper printed to serve the Cherokee people? 8.56
A. The Cherokee Phoenix
- Q. Who served as military governor of Tennessee during the Civil War? 8.80
A. Andrew Johnson



- Q. Tennessee was originally part of what state? 8.39
A. North Carolina
- Q. Which one of the Tennessee Presidents does not have a Tennessee County named for him? 8.83
A. Andrew Johnson (Johnson County was named for Thomas Johnson in 1836 prior to Andrew Johnson becoming well known in Tennessee)
- Q. On what major river system is the city of Chattanooga located? 8.39
A. The Tennessee River
- Q. What Tennessee Native American was also known as George Gist? 8.56
A. Sequoyah
- Q. The city of Jackson, as well as Jackson County, were named for whom? 8.55
A. President Andrew Jackson
- Q. Who saved Bonnie Kate Sherrill's life when Chickamaugans attacked Fort Henry and later married her? 8.39
A. John Sevier
- Q. What famous person died on the Natchez Trace? 8.42
A. Meriwether Lewis (Explorer of Lewis and Clark fame)
- Q. What disease almost destroyed Memphis in the 1878? 8.90
A. Yellow Fever
- Q. How did General William Sherman refer to Nathan Bedford Forrest? 8.77
A. "That Devil Forrest"
- Q. Who commanded the Federal troops at the battle of Shiloh? 8.80
A. U.S. Grant
- Q. What Tennessean is known as the "Hero of King's Mountain?" 8.25
A. John Sevier
- Q. What was Sequoyah's occupation? 8.56
A. Blacksmith
- Q. Who did Tennessee colonists fight during the French and Indian War? 8.19
A. The French and their Indian Allies
- Q. This city wasn't the first, the last, or the shortest length state capitol city in Tennessee, but it was the official one from 1818 until 1826. Name the city. 8.39
A. Murfreesboro
- Q. What river runs from Kingsport to Knoxville? 8.39
A. The Holston River
- Q. Which Tennessean failed to carry Tennessee when he was elected President of the United States? 8.61
A. James K. Polk



- Q. The great-granddaughter of John Ross was the first Native American woman to do what? 8.57
A. Design rockets and missiles (Mary G Ross)
- Q. What major event did Tennessee celebrate in 1996? 8.39
A. The State's Bicentennial
- Q. Which Tennessee president abolished the National Bank? 8.55
A. Andrew Jackson
- Q. The town of Ross's Landing changed its name in 1839 to what? 8.57
A. Chattanooga
- Q. Native Americans attacked Fort Nashborough in 1781. What was that battle called? 8.26
A. Battle of the Bluffs
- Q. How long did the journey known as the Trail of Tears take? 8.57
A. One and one-half years
- Q. What two rivers converge to form the Tennessee River? 8.39
A. The Holston and The French Broad Rivers
- Q. How many of 5 largest Tennessee cities are located along a major river? 8.39
A. All 5
- Q. The Jackson Purchase of 1818 was also known by what name? 8.39
A. The Chickasaw Purchase
- Q. What milestone did Tennessee reach in 1850? 8.39
A. A population of over 1,000,000
- Q. After leaving the state during the Civil War, when did Scott County officially become part of Tennessee again? 8.75
A. 1986
- Q. Who did America fight against in the American Revolution? 8.22
A. Great Britain
- Q. How many of 5 largest Tennessee cities are located along a major river? 8.39
A. All 5
- Q. In what current state did the Battle of Horseshoe Bend take place? 8.43
A. Alabama
- Q. Who was the only US Representative from Tennessee to vote against the Indian Removal Act? 8.59
A. David Crockett
- Q. What is the longest of the rivers which run through Tennessee? 8.39
A. The Mississippi River



- Q. In what Tennessee town can you visit the James K. Polk home? 8.61
A. Columbia
- Q. Tennessee became known as the Volunteer State after men volunteered in great numbers to serve in which war? 8.43
A. War of 1812
- Q. What part of the Anaconda Plan was related to Tennessee? 8.80
A. The capture of Chattanooga
- Q. Who was James K. Polk's "First Lady?" 8.61
A. Sarah Childress (Polk)
- Q. The presidential yacht used for most of the 20th century was named after what famous Tennessean? 8.56
A. Sequoyah (SUH-QWA-YA like the tree) [USS Sequoia]
- Q. On what river was Fort Donelson located? 8.80
A. The Cumberland
- Q. The Peach Orchard and the Hornet's Nest are places associated with what Civil War Battle? 8.80
A. The Battle of Shiloh
- Q. Who was Tennessee's first "First Lady?" 8.39
A. Catherine S. "Bonnie Kate" Sevier
- Q. What major event changed the minds of many Tennesseans concerning secession? 8.75
A. The firing on Fort Sumter
- Q. What Knoxville building served as the SECOND Capitol of the Territory South of the River Ohio? 8.39
A. Blount Mansion
- Q. What Civil War Battle included the "Pickett's Charge of the West?" 8.80
A. The Battle of Franklin
- Q. In what Civil War Battle were 6 Confederate generals killed? 8.80
A. The Battle of Franklin
- Q. Which Civil War commander operating in Tennessee would go on to become President? 8.77
A. U.S. Grant
- Q. The largest and bloodiest battle fought in Tennessee occurred near Shiloh Church in West Tennessee. What does the word "Shiloh" mean in Hebrew? 8.80
A. Place of Peace
- Q. Which city served the shortest time as Tennessee's capitol city? 8.39
A. Kingston (one day!)



- Q. The Tennessee governor's election in 1886 had what colorful nickname? 8.90
A. "The War of the Roses"
- Q. What was the more familiar name for the Cherokee removal from Tennessee? 8.57
A. The Trail of Tears
- Q. What Tennessee battle was at the time the largest fought in the Western Hemisphere? 8.80
A. The Battle of Shiloh
- Q. General William P. Sanders was killed in what Civil War battle fought in Tennessee? 8.80
A. The Battle of Knoxville
- Q. What was the first black newspaper in Knoxville? 8.90
A. The Knoxville Examiner
- Q. The state of Oklahoma was almost named for what famous Tennessean? 8.56
A. Sequoyah (SUH-QWA-YA like the tree)
- Q. What was the name of the Confederate Army that operated in Tennessee during the Civil War? 8.80
A. The Army of Tennessee (State)
- Q. What Tennessee County was named after the territorial governor of Tennessee? 8.39
A. Blount County
- Q. The "Battle Above the Clouds" was fought overlooking what Tennessee city? 8.80
A. Chattanooga
- Q. The 13th US Colored Troops participated in what Tennessee Civil War Battle? 8.78
A. The Battle of Nashville (December 15 and 16, 1864)
- Q. David Glasgow Farragut was born near what major Tennessee city? 8.77
A. Knoxville
- Q. Who served as Tennessee's first two United States Senators? 8.39
A. William Blount and William Cocke
- Q. What Civil War Admiral served in the War of 1812 at the age of 12? 8.77
A. David Glasgow Farragut
- Q. What Tennessee County is named for the state's first governor? 8.39
A. Sevier County
- Q. What Tennessee Civil War Battle was centered at the "Carter House?" 8.80
A. The Battle of Franklin
- Q. Who did the Federal troops fight at the Battle Horseshoe Bend? 8.43
A. The Creek Indians



- Q. What is the largest city in America named for a person from Tennessee? 8.59
A. Houston, Texas (named for Sam Houston)
- Q. What legislation brought about the Trail of Tears? 8.55
A. The Indian Removal Act of 1830
- Q. What Union Army and Navy victory opened the door to the unopposed invasion of Nashville during the early days of the Civil War? 8.80
A. Fort Donelson
- Q. What famous nickname did General U.S. Grant receive at the Tennessee Civil War battle of Fort Donelson, that would stay with him throughout the war? 8.80
A. Unconditional Surrender Grant for U.S. Grant
- Q. Missionary Ridge was a significant part of what Civil War battle? 8.80
A. The Battle of Chattanooga
- Q. Who published the first newspaper in America devoted to the abolition of slaves? 8.66
A. Elihu Embree (pronounced UH LIE WHO - M BREE)
- Q. Name the three most prominent Rivers of Tennessee. 8.39
A. Tennessee, Mississippi, and Cumberland
- Q. Where is Sarah Childress Polk wife of James K. Polk buried? 8.61
A. The Tennessee Capitol grounds (with her husband)
- Q. What did Scott County, Tennessee declare itself during the Civil War? 8.75
A. "The Free State of Scott"
- Q. What British fort, located in present day Monroe County, surrendered to the Cherokee Indians after a year long siege? 8.19
A. Fort Loudoun
- Q. What treaty ended the War of 1812? 8.43
A. The Treaty of Ghent (GENT Hard G)
- Q. Name the riverboat which exploded near Memphis in 1865 killing over 1,000 former Union prisoners of war who were on their way home? 8.80
A. Sultana (pronounced SULL-TAN-UH)