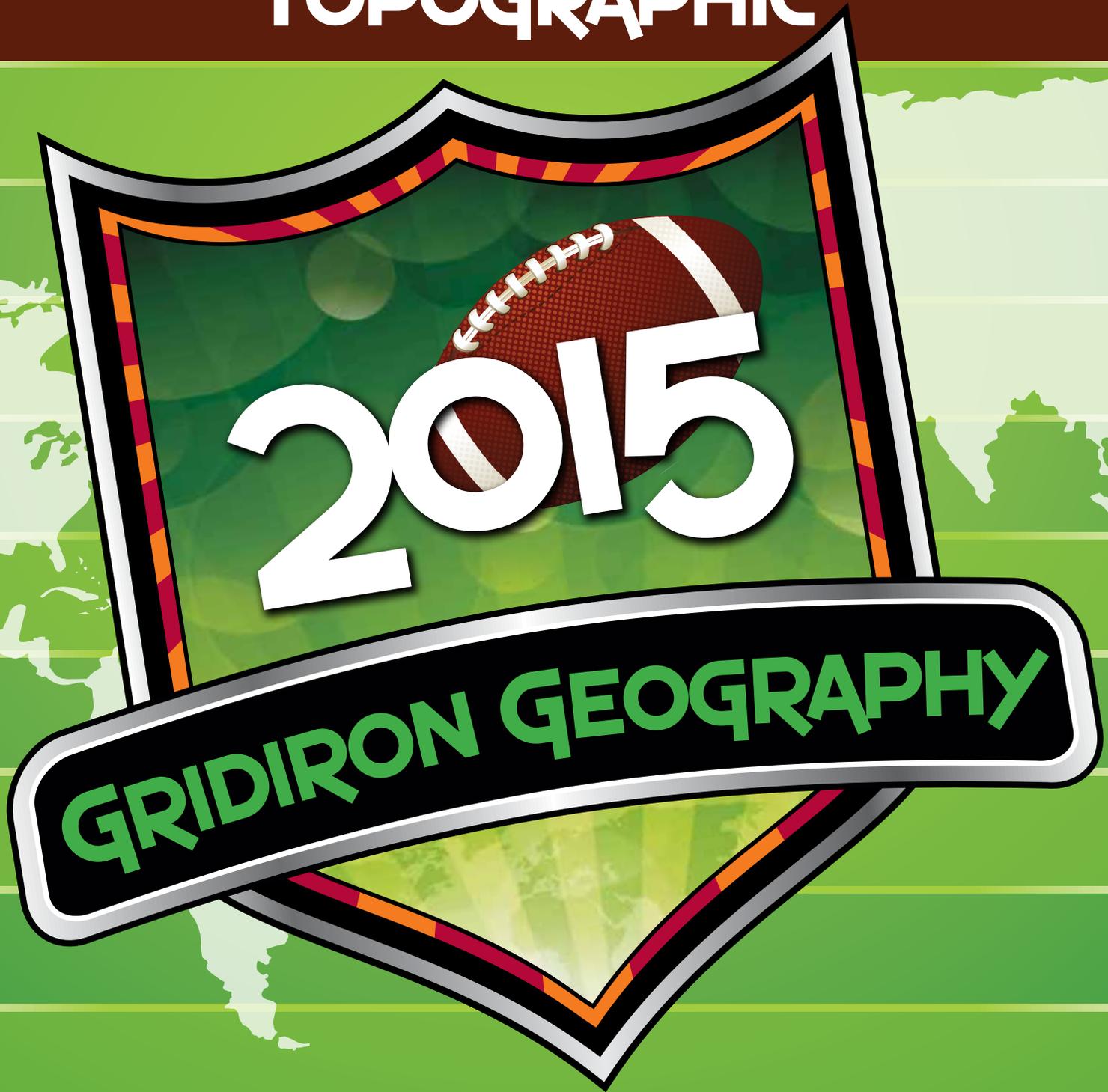


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TOPOGRAPHIC



NEWSPAPERS IN EDUCATION
THE OKLAHOMAN

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LOYALTY INNOVATION LEGACY



WEEK 1 GAMES

Ann Kennedy, OKAGE Teacher Consultant,
Oklahoma City, OK

GAME SCHEDULE

Baylor at SMU
Northern Iowa at Iowa State
South Dakota State at Kansas

South Dakota at Kansas State
Akron at Oklahoma
Oklahoma State at Central Michigan
Texas at Notre Dame

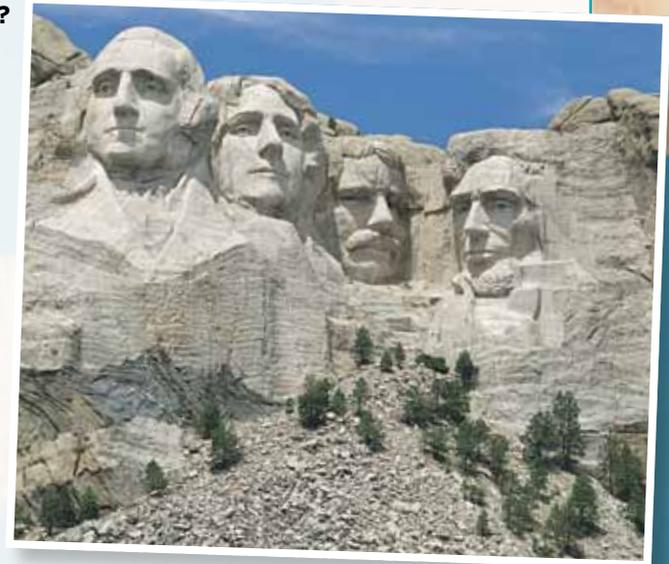
TCU at Minnesota
Sam Houston State at Texas Tech
Georgia Southern at West Virginia

1. A co-champion of the 2014 Big 12 football conference plays the University of Minnesota this week. **Which Big 12 team is this?** The northernmost town in the contiguous United States is Angle Inlet, Minnesota. **What does "contiguous" mean? Using an atlas, a map, or the Internet, identify which Canadian province you would have to pass through to get to Angle Inlet by land. What are the coordinates (latitude and longitude) for Angle Inlet?**
2. The University of Akron will play the Sooners in Norman this week. Akron holds an important place in U.S. history, because the Ohio Women's Rights Convention was held there in 1851. A former slave turned suffragette and abolitionist gave a famous speech critical of those who believed blacks and women were inferior beings. **Who was this famous abolitionist? What was the title of her speech? When and by whom was Akron founded?**
3. Both Kansas State and the University of Kansas will play teams from South Dakota this week. The National Park Service has preserved for future generations two national parks, a national memorial, and a historical trail in South Dakota. **Which national park contains one of the world's largest known fossil beds including fossils of the saber-toothed cat?** Also located in South Dakota are two stretches of the longest river in North

America. **What is the name of this river?** Mount Rushmore National Memorial is located in the Black Hills and features sculpted images of four presidents while celebrating four phases of U.S. history. **Who are they and what are the historical phases?**

4. The geographic center of the 48 contiguous United States is located in one of the states where two Big 12 football games are being played this week. **What is the name of the town and the state where it is located and what are the approximate coordinates?**

5. **Which Big 12 state claims to be the home of the Golden Delicious apple, which it has also named its official state fruit?** This state can also lay claim to the second largest single span steel arch bridge in the Western Hemisphere, and the highest vehicle-carrying bridge in the U.S. **What is the name of the bridge?**



➔ OVERTIME ACTIVITY

As cities grow they have to come to terms with parking congestion and impatient drivers. Oklahomans have created two unique ways to deal with these problems. Oklahoma City was the first place ever to have one of these devices used to monitor crowded parking spaces in the downtown area. **What was the device and where was it installed?** A traffic sign commonly seen on roads and highways throughout the U.S. today was invented by an Oklahoma police officer and installed for the first time on the corner of 1st Street and Columbia Avenue in Tulsa in 1950. This sign helps determine the right of way at intersections and regulates merging traffic on highways. **What is this sign and who was its inventor?**

WEEK 2 GAMES

Joseph Rohr, OKAGE Teacher Consultant,
Tulsa, OK

Lamar at Baylor
Iowa at Iowa State
Memphis at Kansas

GAME SCHEDULE

Kansas State at Texas-San Antonio
Oklahoma at Tennessee
Central Arkansas at Oklahoma State
Rice at Texas

Stephen F. Austin at TCU
UTEP at Texas Tech
Liberty at West Virginia

1. The West Virginia Mountaineers meet the Liberty University Flames on the gridiron this week.  **Liberty University is located in what city? What historical and geographical significance did this city serve during the Civil War?**
2. The Lamar Cardinals “fly” in to Waco to meet the Baylor Bears this week. **Where is Lamar University located? What event happened there in 1901 that forever changed the city’s history?**

week. **What are the hometowns of these two universities? What major highways and interstates will Bear fans travel to get to the game? Using a map search engine (e.g., Google Maps or mapquest.com), road maps, or a road atlas, figure the approximate number of miles traveled and travel time one way and round trip using ONLY two (2) highways.**



5. One of the Big 12 universities is located in a state that did not have a state flag for many years. Although this state entered the Union in 1846, it did without an official flag until 1921. **Which state is this? What Big 12 university is located there? Write a brief description of the history of this state flag.**

3. The Memphis Tigers will be on the prowl for the Kansas Jayhawks in Lawrence. On May 8, 1541, a major geographic feature was “discovered” by an early European explorer around the Memphis area. **Who was this explorer and what feature did he find?**

4. The Central Arkansas Bears will come roaring into Oklahoma to play the OSU Cowboys this



→ OVERTIME ACTIVITY

Teachers, divide your students into 10 groups, and assign each group one of the Big 12 teams (e.g., West Virginia Mountaineers). Then, have each group see how many words they can make using three (3) or more letters from the letters of their team. Give them a time limit and a two-minute warning before having each group report the total number of “real” words they found.



WEEK 3 GAMES

Ginny Rohr, OKAGE Teacher Consultant, Tulsa

GAME SCHEDULE

Iowa State at Toledo
Louisiana Tech at Kansas State

Tulsa at Oklahoma
UTSA at Oklahoma State
California at Texas

SMU at TCU
Texas Tech at Arkansas

1. The University of Oklahoma will host the University of Tulsa this week. In 1925, Tulsa's "Father of Route 66" was named to lead the creation of a national highway system from Chicago to Los Angeles.



- What is his name? Identify the eight states through which Route 66 passes. What interstate highways parallel and have largely replaced Route 66 in Oklahoma? Name the three time zones that the highway crosses.**
2. The University of Toledo will host Iowa State in the Glass Bowl stadium named in honor of Toledo's primary industry. Known as "The Glass Capital of the World," **name some of its early glass companies and products. By what Depression Era organization was the Glass Bowl originally built?**
3. This week the Kansas State Wildcats will host the Louisiana Tech Bulldogs. **In what towns are the two schools located? What is the relative location of each school to the other? What are their absolute locations?**
4. The University of California at Berkeley plays the University of Texas at Austin this week. In the face of California's most severe drought on record, Gov. Jerry Brown issued an executive order that called for a 25%

reduction in water use. **What restrictions did this order place on the public? View the U.S. Drought Monitor map, <http://droughtmonitor.unl.edu/>, to compare and contrast California's and Texas's current conditions. What were their conditions three months ago?**

5. UTSA will travel to Stillwater this week. **Using state highway maps or the Internet, determine on what interstate highway Roadrunner fans will probably drive? How many miles? If the average speed is 60 miles per hour, about how long will it take to make the trip?**



➔ OVERTIME ACTIVITY



Three Oklahoma schools will be on the gridiron this week. Oklahoma's own Woody Guthrie is one of America's most influential folksingers. **Sing and/or play an instrument along with his most famous song, "This Land Is Your Land" <http://www.pbs.org/wnet/americanmasters/this-land/sheet-music-and-lyrics/>.** You can also click the link "See & Hear the Latest Video Uploads" to join people singing it across the USA!

Locate the geographical locations or terms mentioned in Guthrie's song on a U.S. map.

WEEK 4 GAMES

Rob Miles, OKAGE Teacher Consultant,
Putnam City Schools, Oklahoma City

GAME SCHEDULE

Rice at Baylor
Kansas at Rutgers

Oklahoma State at Texas
TCU at Texas Tech

Maryland at West Virginia

1. This week the Maryland Terrapins travel to Morgantown to play the West Virginia Mountaineers. Maryland is one of the original 13 colonies and one of the oldest states; West Virginia was created during the Civil War and is one

of the younger states.

Using an almanac, encyclopedia, the Internet, or another resource, find the following facts about both states: state capital, state song, state flower, and at least one famous person from that state.

2. Rivers have always played a very important part in the growth of cities. All five of the cities hosting Big 12 football games this week have rivers running through them. **Name the five cities and their rivers.**

3. Texas Tech and Texas Christian University will face off this week in Lubbock. **On what two major highways will TCU fans travel for the majority of their trip and how long will it take them to get there if they travel at 70 miles an hour? Which cardinal direction will they travel for most of the trip? If the Horned Frogs' fans leave early and want to stop for breakfast,**



what town is at about the halfway point?

4. The Rice Owls will fly into Waco to take on the Baylor Bears this week. Rice University is located in Houston, a major port city in the United States, thanks to its proximity to four large bays. **What are the**

names of these bays? A long, narrow island separates Houston from a large oceanic feature. **What is the name of that island and what is the large body of water to the southeast of the island?**

5. The five games played by Big 12 teams this week will occur in two time zones. **What time zones are these, and which games will be played in which zone?**

→ OVERTIME ACTIVITY

Fans of the Kansas Jayhawks will travel to New Jersey this week. Kansas and New Jersey are very different states in many ways. **Using data from the U.S. Census bureau and the Internet, find the following for both states: land area (in square miles); total population; percentage of population that lives in urban areas; farmland (in acres); the number of farms; and the average size of those farms. Write the facts you find on a T-chart or other graphic organizer. Using this information, calculate population density (the number of people per square mile) and answer the following questions:**

Which state has more land?

Which state has more people?

Which state has more farmland? How many farms does each state have? What is the average size of the farms in each state?

Which state has a higher percentage of people living in cities?

Which state has more people per square mile?

What do these differences in land use tell you about Kansas and New Jersey?

WEEK 5 GAMES

Jeffrey M. Widener, GIS Librarian,
The University of Oklahoma, Norman

GAME SCHEDULE

Texas Tech vs. Baylor (Arlington)
Kansas at Iowa State

Kansas State at Oklahoma State
West Virginia at Oklahoma

Texas at TCU

1. The Kansas Jayhawks travel to Ames, Iowa, to take on the Cyclones. These two states are named after Native American tribes: the Kaw (Kansa or Kanza) Nation and the Iowas (or Bah Kho-Je). Both tribes were forcibly resettled by the federal government. **Where are the tribal headquarters for these two tribes today? Determine where the Kaw Nation and Iowas originally settled. Using a good road atlas or Google Maps, estimate how far these tribal members are from their original homelands.**



a garden that honors Ada Lois Sipuel Fisher. **Who was Ada Lois Sipuel Fisher? What is her significance in Oklahoma and United States history?**

3. The Kansas State Wildcats will try to catch the Oklahoma State Cowboys in Stillwater this week. Kansas and Oklahoma share a similar colonial legacy. **Which foreign powers have previously controlled the present day areas of both Kansas and Oklahoma?**

4. The Texas Longhorns will generally follow the old Chisholm Trail as they make their way from Austin to Fort Worth to take on the Horned Frogs of Texas Christian University. While the Chisholm Trail was traveled by cattle, the new Chisholm Trail Parkway caters to motorists. **Do an Internet search for "Chisholm Trail Parkway." What is it, and what alternative does it give to commuters?**

5. The game between the Baylor Bears and the Texas

Tech Raiders will be played at AT&T Stadium in Arlington, Texas. While these two teams battle each year, battles over water occur in this state every day as its population increases. Using the Internet, research Lake Alan Henry and the John T. Montford Dam. **When were the dam and reservoir constructed? Who was John T. Montford? What is Lake Alan Henry for? How is water transported to Lubbock? Discuss the consequences and benefits of damming rivers.**



2. The West Virginia Mountaineers play the Oklahoma Sooners in Norman's "Palace on the Prairie" this week. Fans visiting OU's Norman campus might follow a footpath to

➔ OVERTIME ACTIVITY

October 3rd is National Techies Day. It was created in 1999 to raise awareness about careers in technology. **Take some time to search the Internet for careers that incorporate geography and geospatial technology.**

WEEK 6 GAMES

Heather Braucher, OKAGE Teacher Consultant,
Claremore, OK

GAME SCHEDULE

Baylor at Kansas
Iowa State at Texas Tech

Oklahoma vs. Texas (Dallas)
Oklahoma State at West Virginia

TCU at Kansas State

1. This week the annual Red River Rivalry takes place. **What two Big 12 teams will face off for this game? Historically, the Red River has been claimed by what nations besides the U.S.?**

2. Players and fans of the Oklahoma State Cowboys will travel this week to Morgantown, WV, which lies next to the Monongahela River. **This river eventually joins with the Alleghany River to form what major river? Also, the confluence of these rivers is in what steel producing city in Pennsylvania?**



The Monongahela River has been modified by the U.S. Army Corps of Engineers so that it is deep enough for tow boats and barges to navigate. **Name a major river in Oklahoma**

that has also been modified like the Monongahela.

3. Manhattan, home of Kansas State University, and Fort Worth, home of Texas Christian University, are significantly different sized cities. **Use <http://www.city-data.com/> to look up the population and land area of each city. What is the population and land area of each city? Next, divide the number of people by the land area in square miles to get the approximate population density for each city. Which city is more densely populated? What issues can arise from a densely populated city?**

4. Iowa State fans who decide to drive to Lubbock to watch their team play Texas Tech must travel about 925 miles. **If they use a portion of Interstate 70,**

Cyclones players and fans will pass through the home of what other Big 12 team that will be hosting another Texas team this week? What is the visiting Texas team?



5. Thousands of Sooner fans will drive south using Interstate 35 to watch the Oklahoma Sooners play the Texas Longhorns at Cotton Bowl Stadium this week. On the route the fans will drive fairly close to several large lakes. **Use the Internet (e.g., Google Maps or Mapquest) or a highway atlas and follow the route to locate and name these lakes. Which lakes are manmade? What two major rivers in Oklahoma meander along I-35, in Oklahoma?**



➔ OVERTIME ACTIVITY

The controversial Keystone XL Pipeline project involves building a 1,779 mile pipeline from Hardisty, Alberta, Canada, to Steele City, Nebraska. **Visit <http://keystone-xl.com/> to determine the route. What U.S. states will the Keystone XL pipeline run through if it is completed as planned? What economic benefits may result from the pipeline's construction? What are the possible environmental effects?**



WEEK 7 GAMES

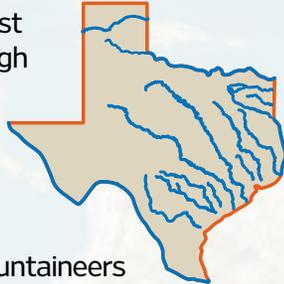
Annie Elsberry, OKAGE Teacher Consultant,
Pawhuska, OK

GAME SCHEDULE

West Virginia at Baylor
Oklahoma at Kansas State

Texas Tech at Kansas
TCU at Iowa State

1. The longest river contained almost entirely in Texas meanders through Baylor University's hometown. **Name this town? What is the name of the river? Identify its source, mouth, and length.**



2. This week the West Virginia Mountaineers will travel to Waco, Texas to take on the Baylor Bears. The watershed of one of the rivers in Texas begins in the Caprock Escarpment in the High Plains. **What is an escarpment? How is an escarpment formed and what famous landmark on the United States-Canada border is an example of this?**
3. Two Big 12 football games this week will be played in Kansas as home games for the Jayhawks and the Wildcats. **In what county is each of these located and what is the county seat?**

4. Iowa State has a home game this week. Most states share borders with two or three states. Iowa is bordered by six states. **Name those six states, list their capital cities, and the current governor of each. What other Big 12 state is also bordered by six states?**

→ OVERTIME ACTIVITY

Land grant colleges are institutions of higher learning that were established under the Morrill Act of 1862. These universities were to teach "agriculture and mechanical arts" to meet the nation's needs for scientifically trained technicians and agriculturalists. Military training was required to be included in the curriculum. **Find this week's list of the college football "AP Top Twenty Teams." Which of these are land grant colleges/universities?**



WEEK 8 GAMES

Denise Aguilar, OKAGE Teacher Consultant,
Central Middle School, Lawton, OK

GAME SCHEDULE

Iowa State at Baylor
Kansas at Oklahoma State

Kansas State at Texas
Texas Tech at Oklahoma

1. Kansas State University has its main campus in Manhattan, Kansas. K-State has two other campuses in the state located in Salina and Olathe. **From Manhattan, what general direction would you go to reach each campus, and what Interstate highways would you take to get there?**

2. Although Will Rogers was a native Oklahoman, a statue of Rogers on his horse, Soapsuds, sits on this Big 12 university campus outside of his home state; it was donated by Amon G. Carter, longtime friend of Rogers. **Where can a visitor see Will Rogers and Soapsuds riding into the western sunset?**



3. The original campus of this Big 12 school was built on 200 acres of prairie donated by four homesteaders. The college's first students attended classes in the local Congregational Church, and the first six graduates received diplomas in 1896. Today this university graduates nearly 5,000 students annually. **Name this Big 12 University.**



4. The lyrics of the fight song for this Big 12 University were written in 1905 by student Arthur M. Alden; the melody, however, was borrowed and adapted. It is actually a "mash-up" of songs used for many years by two other

universities. **What Big 12 school is this? From what two schools did the melody come? What are the names of the songs of those two schools?**



5. Reflecting its agricultural region, Iowa State University was founded in 1858, but with an entirely different name. **What was ISU's original name? By what other name was this college known?**



→ OVERTIME ACTIVITY

Using a road atlas of the United States or an online highway map, determine which Interstate highways run through or close to each Big 12 university. Working with a partner, create an "Interstate Map of Big 12 Universities" on a blank map of the United States. Draw the identified Interstates on the map and place each Big 12 university in its proper location in one of the school colors. Which Interstate highway has the most Big 12 schools located on or near it? How many schools are there? Here's a good source for printable maps: <http://www.onlineatlas.us/united-states-map.htm>



WEEK 9 GAMES

Ginny Rohr, OKAGE Teacher Consultant, Tulsa, OK

GAME SCHEDULE

West Virginia at TCU
Oklahoma at Kansas

Oklahoma State at Texas Tech
Texas at Iowa State

1. The Texas Christian University Horned Frogs are actually named after a lizard. **To explain the TCU mascot, research the scientific name of this reptile and its Greek and Latin meaning.** In nature, a horned frog has the bizarre ability to squirt a liquid from its eyes to as much as three feet away. **What is it? Why?**



2. The University of Oklahoma is the only Big 12 university to house a National Weather Center. Tours can be scheduled at its state of the art center on the Norman campus. Also located there is the National Severe Storms Laboratory—**what does it do? Using their website, <http://www.weather.gov/>, chart the current weather for each of the cities where a Big 12 game is to be played this week. What is the forecast for game day? List what fans may need to take to the game (e.g., coat, hat, raingear, or sunglasses).**
3. After a tough battle on the gridiron, football players may want to relax at a nearby lake. **Using an atlas or the Internet, locate and name the lake(s) close to each of the Big 12 universities hosting a game this week. What direction is each lake from the stadium?**
4. There are railroads in the hometowns of both the Oklahoma State Cowboys and the Oklahoma Sooners. **Using**

the Oklahoma State Railroad Map (available free from the Oklahoma Department of Transportation) or the Internet, locate and name the rail systems that serve each of these hometowns. How many miles of track does each company operate in Oklahoma?



5. Kansas State University's main campus is located in Manhattan. **The university also has campuses in what two other Kansas towns? Besides its main campus in Stillwater, where else does Oklahoma State University have campuses?**

➔ OVERTIME ACTIVITY

Agriculture is very important in all the states playing this week. Vegetable oil is one of the many products made from crops grown in the Big 12 states. Try this amazing science experiment that resembles an old Lava Lamp!

Materials:

Clear container (e.g., plastic water bottle)
Vegetable oil
Fizzy tablet (e.g., Alka-Seltzer tablet)
Food coloring
Flashlight (optional)

Directions:

Pour vegetable oil in container about 2/3 full.
Pour water in the rest of the bottle to about an inch from the top.
Add about 5 drops of food coloring to darken the water.
Break the tablet into small pieces.

Drop one of the pieces of fizzy tablet into the oil and water mixture. What happens?

Continue to add another piece of tablet when the bubbling stops.

Turn off the room lights and observe with your flashlight. (optional)

How does the Lava Lamp work? Explain. What happens when oil spills into a river or ocean?

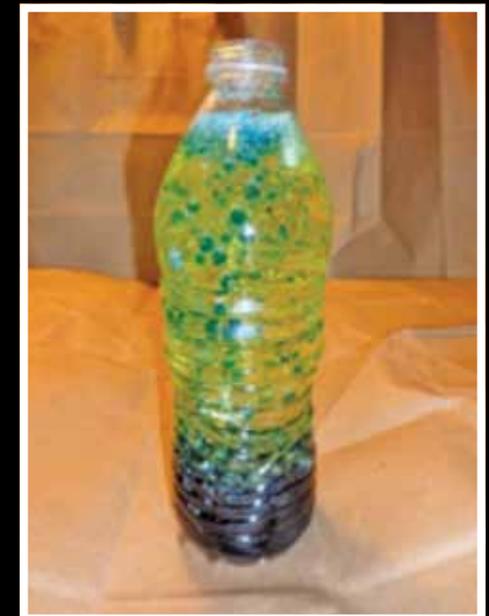


Photo by Ginny Rohr

WEEK 10 GAMES

Annie Elsberry, OKAGE Teacher Consultant,
Pawhuska, OK

GAME SCHEDULE

Baylor at Kansas State
Iowa State at Oklahoma

Kansas at Texas
Texas Tech at West Virginia

TCU at Oklahoma State

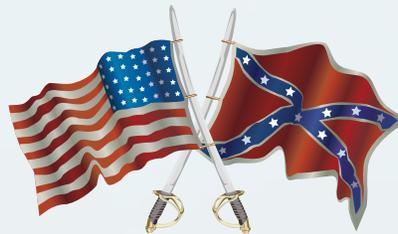
- 1.** Iowa is home to some of the country's most fertile topsoil. Much of this land is found in the "young drift plains." **In what part of Iowa are these plains and how were they formed? What is the number one crop grown in Iowa?**



- 2.** When Texas Christian University fans visit Oklahoma State this week, they may want to come early to visit the world's largest natural gypsum cave open to the public. **What is the name of**

this cave, and in what town and county is it located? Using a highway map or the Internet, find the shortest and quickest route from Stillwater to the cave.

- 3.** The United States is observing the 150th anniversary of the "bloodiest war" in its history: the Civil War. **How many states with Big 12 teams sided with the Union? How many with the Confederacy? Which states were they? Which state with Big 12 teams today did not take sides? Why?**



- 4.** It is unusual for two people born in the same state to run for the highest office in the land in the same year, but that happened in



1924. Two West Virginians ran for President that year. **Who were they and what parties did they represent?**

Who ultimately won the 1924 election?

- 5.** Oklahoma has three sites administered by the National Park Service. **What was the only national park established in Oklahoma, when was it established, and where is it located? By what name is it known today? Between what two ecosystems is it located? What are the other two National Park Service sites in Oklahoma?**



➔ OVERTIME ACTIVITY

Using the map at <http://americancivilwar.com/statepic/oklahoma.html>, locate the seven sites of major Civil War battles in Indian Territory. List the battle, when it was fought, commanding officers on each side, and the outcome for each battle. Which battle site is closest to Oklahoma State University? Between June of 1862 and the war's end in 1865, there were at least 28 battles or skirmishes in Indian Territory. Read more about them here: <http://okcivilwar.org/sites/oklahoma>



WEEK 11 GAMES

Ann Kennedy, OKAGE Teacher Consultant,
Oklahoma City, OK

GAME SCHEDULE

Kansas at TCU
Kansas State at Texas Tech

Oklahoma at Baylor
Oklahoma State at Iowa State

Texas at West Virginia

1. Within a 500-mile radius of Morgantown, West Virginia, lives about half of the population of the United States and one-third of the population of Canada. West Virginia University is about one day's drive from 6 of the 8 largest U.S. metropolitan areas, 20 metro areas with populations of 1 million or more, and 22 of the nation's top 35 industrial markets. **Use a road atlas or an online map site (e.g., Google Maps or Mapquest) to find the names and locations of the metropolitan areas that are easily accessible from WVU. What is the approximate distance of each from Morgantown? Find at least eight (8) cities: two north, two south, two east, and two west of WVU**

2. The Kansas Jayhawks will be playing the TCU Horned Frogs in Fort Worth this week. Fort Worth gained notoriety after the Civil War as a focal point of the cattle trails, heading north through Indian Territory. Once the railroads arrived it became a major shipping point for livestock. Today the Fort Worth stockyards are a major tourist attraction, but there are many other reasons people visit and live there. **Visit some online Fort Worth sites and make a list of reasons individuals and businesses might want to move to Fort Worth.**



3. The newest addition to the National Park System is a site on the Bosque River, near the campus of Baylor University. **What is the name of this new national monument? When was it designated a National Park site? What is unique about this place?**

➔ OVERTIME ACTIVITY

The Civil War had a major impact on all of the states in which Big 12 universities are located today. **Do a little research and discover the Big 12 school that (1) is located in a county that was once part of an Indian reservation, (2) is in a state that sided with the Union during the war, and (3) is a few miles east of the fort that is home of the "Big Red One."**

4. The OSU Cowboys will ride into Ames this week to take on the Iowa State Cyclones. The players and fans should feel at home in Ames as it has some similarities to Stillwater. Yet both cities have their own unique qualities. **In the chart below determine if the description is for Ames, Stillwater, or both cities. Place a checkmark in the appropriate box.**

Ames	Stillwater	Both	
			Is located in "Tornado Alley"
			Has a veterinary school
			Location of the National Wrestling Hall of Fame
			Has a humid, continental environment
			Has a university that was established as a result of being a land grant college (as a result of the Morrill Act)
			Was ranked as #9 on a list of the best places to live by CNN.money.com
			Is the location of the first-in-the-nation caucuses in the 2016 race for the Presidency

5. Most rivers exist because a number of smaller streams join at a common spot or flow into a larger stream. These smaller streams are called tributaries. The Red River that forms much of the border between Oklahoma and Texas is an example. **Using a physical map or the Internet, identify the major tributaries that flow into the Red River from the Oklahoma side. Which of these tributaries was once part of the boundary between Oklahoma and Texas?**

WEEK 12 GAMES

Marilyn Pineda, OKAGE Teacher Consultant,
Comanche, OK

GAME SCHEDULE

Baylor at Oklahoma State
Iowa State at Kansas State

West Virginia at Kansas
TCU at Oklahoma

1. May 2015 is now the wettest single month on record in Oklahoma, providing much needed rain for the natural turf in many football stadiums, including the one at the University of Oklahoma. Most tropical storms from the Gulf of Mexico weaken as they travel over land, but they will occasionally gain strength as they pass over warm moisture-rich soil. In August of 2007, an eye-like feature with 82 mph wind gusts formed over the plains around Watonga, Oklahoma, as Tropical Storm Erin passed through. **What is this phenomenon called? In what countries has it occurred, and where does it occur most frequently?**

2. Kansas State and Iowa State players will use a lot of energy when they face off this week. A great deal of electricity is also used when a major event like this occurs. Wind energy was responsible for about 4% of the nation's electricity production during 2013. **What geographical**



characteristics in Kansas and Iowa are responsible for them being major producers of wind energy? How is the height of a commercial wind turbine to be built at a particular site determined? Where is the largest wind turbine farm in the United States? Where in the world?

3. Although tallgrass prairies originally spanned more than 170 million acres in fourteen states from Texas to Minnesota and into Canada, there is now less than ten percent of these magnificent prairies remaining. Iowa, Oklahoma, Kansas, and Texas all have tallgrass preserves. **In what state is the largest protected tallgrass**

prairie preserve remaining on earth? What are some natural ways to keep the prairies healthy and viable?

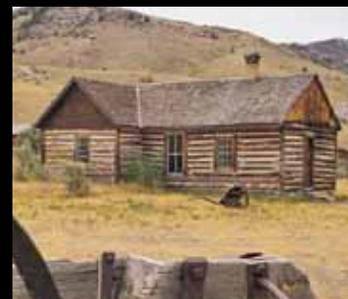
4. The states of all Big 12 teams playing this week have access to major rivers that flow directly into the Mississippi River. **What are the rivers? Historically, why was access to the river network of North America an advantage, and why does it continue to be?**



5. Said to be "the most photographed landmark on Route 66," this structure is located about halfway in between the campuses of OU and OSU. **When and where was it built? What is unusual about its construction? Why was it built this way?**

➔ OVERTIME ACTIVITY

Early day homes in West Virginia were built of available materials, as were the homes in Kansas, where the Mountaineers will play the Jayhawks this week. **Considering the very different landscapes of West Virginia and Kansas, what would houses have been made of when the states were first settled? Describe the building materials and the construction of houses in each of these two states in the 1800s.**



WEEK 13 GAMES

Denise Aguilar, OKAGE Teacher Consultant,
Lawton, OK

GAME SCHEDULE

Texas Tech at Texas
Baylor at TCU

Iowa State at West Virginia
Kansas State at Kansas

Oklahoma at Oklahoma State

- 1.** Texas Christian University sits in the heart of downtown Fort Worth, Texas. Fort Worth, with its strong western heritage, was established in 1849 as an Army outpost on a bluff overlooking what some sources describe as “the longest river that flows entirely within the state of Texas.” **What is the name of this river and how long is it?**



- 2.** Coopers Rock State Forest is located 13 miles west of West Virginia University (WVU). It is divided into two parts by a major highway. The north side, known as WVU Forest, is leased by the West Virginia University Forestry Division for research, teaching, and demonstration. The south side is the main recreation



area. **Name the interstate that bisects the 12,713 acres of Coopers Rock State Forest. How did this forest get its name?**

- 3.** The junior U.S. Senator from Kentucky is running for president this year. He was a student at one of the Big 12 universities from 1981 to 1984. **Who is this candidate, what is his Big 12 alma mater, and what was his profession before he entered politics?**

- 4.** There are three presidential libraries located in Texas, but only one of them is located on the



campus of a Big 12 university. **Which U.S. presidents have their libraries in Texas? Where are they located? Whose library is on the campus of a Big 12 school?**

- 5.** When the Five Tribes were forcibly removed from their ancestral homelands in the South, many of their citizens owned slaves and brought them to Indian Territory along the Trail of Tears.



After the Civil War, these former slaves, known as “freedmen,” were joined by thousands of other African Americans who established about 50 all-black towns in Indian Territory. Thirteen of these all-black towns are still incorporated today. **Which town is closest to OSU? Which one is closest to OU?**

➔ OVERTIME ACTIVITY

The 110th Bedlam football game this week has historical significance: the game marks the 11th time the teams coached by Bob Stoops (Oklahoma) and Mike Gundy (Oklahoma State) will meet. It is the longest coaching rivalry in the Bedlam series. There are nine other long coaching rivalries in the Bedlam series. **Create a timeline of these coaching rivalries with the names of the coaches and the dates and records of their rivalries.**

WEEK 14 GAMES

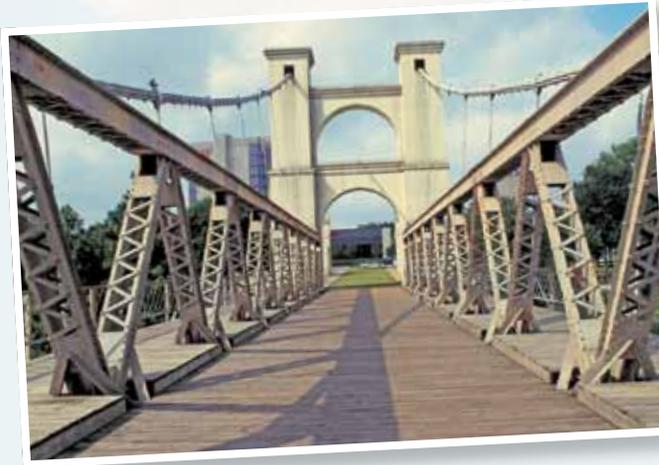
Jeffrey M. Widener, GIS Librarian,
The University of Oklahoma, Norman, OK

GAME SCHEDULE

West Virginia at Kansas State

Texas at Baylor

1. The West Virginia Mountaineers will “come up” to the plains to take on the Kansas State Wildcats. **Visit www.usclimatedata.com. In the “Enter a Location” box, search for Manhattan, Kansas. Under the “Monthly” tab, find the average high and low temperature in Manhattan. Next, click on the “Geo & Map” tab. What is Manhattan’s elevation (distance above sea level) and its absolute location (latitude and longitude)? Find the same information for Morgantown, West Virginia. Explain why Manhattan and Morgantown have similar average high and low temperatures, even though KSU (on the Kansas plains) has a higher elevation than WVU (in the Appalachian Mountains).**



2. The Texas Longhorns will make a short trip north on Interstate 35 to take on the Baylor Bears. West of Baylor’s new McLane Stadium is the historic Waco Suspension Bridge. **What river does this bridge span? What historic cattle trail benefited from the construction of this bridge? What does this bridge have in common with the Brooklyn Bridge in New York City?**

3. Both Austin and Waco, Texas, have sizeable Hispanic populations, according to www.city-data.com. Hispanic, however, is a general term used by the U.S. Census Bureau and does not explain an individual’s ethnic identity. **What term is often used to describe a Texan of Mexican descent?**

4. The “longest multiple-arch dam in the world” is located in a state that is home to two Big 12

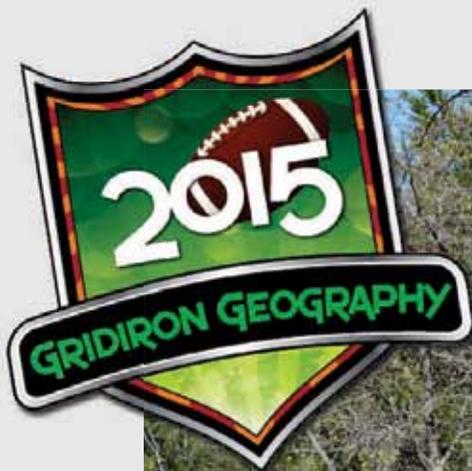
universities. **What state is this, what is the name of this dam, and what lake was created when the dam was built?**

5. Mines in the Tri-State region of northeast Oklahoma, southeast Kansas, and southwest Missouri supplied the nation with two important minerals for more than 60 years. Today, the mines are closed and much of the area has been included in the Tar Creek Superfund site. **What were the minerals produced there, and why has this area received the Superfund designation?**



→ OVERTIME ACTIVITY

December 5, 2015, marks the end of the Big 12 football season this year, but it is also the 60th anniversary of a major historical occurrence that took place in the capitol of Alabama. **What was this event and in what city did it occur? What role did a 42-year-old African American seamstress play in this headline-producing event, and who was she?**



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