

ADVANCED LEARNING LABS

Collaboration between NC Department of Public Instruction and AIG Teachers across the state
TO ENGAGE, ACTIVATE, AND GROW OUR STUDENTS

GRADES

K-1

Diversity



ENGLISH LANGUAGE ARTS

A bio poem is a poem written about a person. It can help us learn about ourselves and teach us about the diversity of others. Write a bio poem about yourself using this format:

Line 1: Your Name

Line 2: Three adjectives (describing words) about you

Line 3: Enjoys (name two things)

Line 4: Loves (name two things)

Line 5: Fears (name one thing)

Line 6: Wishes (name one thing)

Line 7: Wonders (name one thing)

Line 8: Plans to (name one thing)

Line 9: Your name repeated

Share your poem with your family and friends and encourage them to write one.

- What did you learn about the diversity of your family and friends?
- How does reading about other people help us understand ourselves and others?



SOCIAL STUDIES

People living together in an area are part of a community. Each person brings his/her own culture and experiences that come together to create a diverse community.

With a family member, brainstorm a list of people who are diverse in your community. Now, focus specifically on a few people from your list:

- What makes each person unique?
- How do these individuals contribute to the community?
- How do the contributions of these individuals make your community a diverse place to live?

Design a mural or a monument to display in your community that reflects the diversity of your community.

Watch this video and learn how one school in Asheville created a mural: <http://alexirvineceramics.blogspot.com/2013/06/hall-fletcher-elementary-school-mural.html>



SCIENCE

Go on a nature hunt and look for diverse objects. Use an egg carton if you have one. Label each row of the egg carton with one of these words:

Shiny	Light	Soft	Smooth	Dull
Hard	Bumpy	Colorful	Heavy	Transparent

As you are searching for objects, fill in one side of the egg carton with six different things you find in nature that the word describes. Go on multiple hunts with different words. Sort all the diverse things you found into groups.

- How can objects be sorted into more than one group?
- What new groups can you make?
- What big ideas or general statements can you make about diversity in nature?



MINDFULNESS

Color is a beautiful thing. Reflect on the song and visuals in this video: <https://thekidshouldseethis.com/post/color-is-a-beautiful-thing-nina-simone-animation>

Find a place in your house or outside in your yard. Sit quietly.

Now, choose a color.

- What can you find around you that are shades of the color you chose?
- What other things in nature are also this color shade?
- How can color help you feel connected to other living things on earth?

Diversity



LOGIC PUZZLE

I am going camping and I can bring many diverse items, but not all items.

Figure out what I can bring, using the following clues:

- I can take arrows, but not a bow.
- I can take cookies but not cake.
- I can take a hammock, but not a tent.
- I can take a canteen and a bottle, but not water.
- I can take green and yellow, but not blue or red.
- I can take a puppy, but not a dog.
- I can take a book, but not a magazine.

What is the rule for the things I can bring on my camping trip?



FIELD STUDIES

Mae Jemison was the first black female astronaut. Watch this following video of Jemison speaking about her life: <https://thekidshouldseethis.com/post/dr-mae-jemison-nasa-astronaut-i-wanted-to-go-into-space>

Mae chose to take three things to space to represent groups that had not been included in the past.

If you were to become an astronaut and could take three things that represent the diversity of your culture, community, or country, what would you take and why?

Create a list of items you would take and share it with a friend or family member. Ask friends and family members to share items they would bring and why.



RESEARCH EXPLORATIONS

Our planet is home to many animals. This variety, referred to as biodiversity, includes the communities they form and the habitats in which they live. Watch this video that shows animals that are endangered and some that have come back after being in danger of extinction:

<https://thekidshouldseethis.com/post/22843849341>

If we do not support the habitats of these animals, they could become extinct. Study the details of these animals and think about the diversity of animals around us.

- Choose an endangered animal that you are interested in learning more about.
- Read a book about that animal or ask an adult to help you research the animal on the internet. Use this website for links to help with your research: <http://www.librarypatch.com/2015/01/10-animal-research-websites-for-kids-4.html>
- Create a trading card for your animal. Include an illustration, where it lives, what it eats, how it moves, and other distinguishing facts. Share your trading card with a family member or friend.



MATH

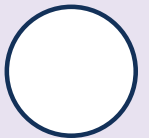
When we are with family or friends, we often have to share things. There are diverse ways to share with others. If we have one rectangular cake and one circular pizza for a party, how can we equally divide the cake and pizza for 4 people?

Draw lines on a circle and on a square that show how we can make equal shares.

- If I want to share just my piece of cake with my dog, how can I draw lines to divide one piece equally?
- If I invite 4 more people to the party, how many more cakes and pizzas do I need so everyone will have an equal share? If I can't order more, will each person get more or less food?



Challenge: If there are 10 people at the party, how many pizzas and cakes do we need? Will there be any left over?



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GRADES

2-3

Diversity



ENGLISH LANGUAGE ARTS

The power of stories from diverse cultures act as both "windows" into others' lives and as "mirrors" reflecting our own life experiences. Read a fable, folktale or myth from a culture that is different from your own.

Create a Color/Symbol/Image to help you recount the story:

- Choose a **color** that you feel represents the main character and explain why/how it represents that character.
- Choose a **symbol** that represents the central message or lesson of the story. State what you feel is the lesson of the story and why, as well as explain an explanation of your symbol.
- Choose an **image** from the story that captures the main idea of the story and include an explanation that tells why.



SOCIAL STUDIES

You're opening a new restaurant and want to try to capture the interest and business of everyone in your community.

Research and compare the languages, foods and traditions of diverse groups living in your local or regional community. What are commonalities? What are differences?

After reflecting on your research, create a diverse menu and entertainment lineup for your restaurant that celebrates both the differences and similarities of these cultural groups.

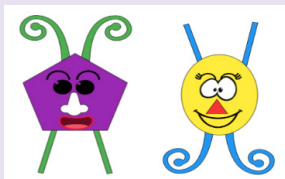
Create a name that is welcoming of diverse cultures and highlights the important features of your restaurant.



SCIENCE

How can a family have the same genetics, yet look so diverse? Genetics is the study of how we pass on characteristics or traits from one family member to the next, which means that offspring inherit traits from their parents.

Here are two monster parents:



Create examples of what their children could look like. Make a list of all the traits you see, including shape, color, features, etc. to help you design the baby monsters.

What would be included in a baby monster that is clearly not their child?



MINDFULNESS

We all have diverse gifts and talents within us.

Create a jar that represents the different gifts and talents within your family or classroom community. Each person can add what they view as their gifts and talents to the jar, either by writing them on colorful slips of paper or finding trinkets to symbolize their gifts and talents. Some examples are a paintbrush for a person who is artistic, a shoelace for knot tying, etc.

After everyone has contributed to the jar, reflect on all the gifts and talents within your family and/or community.

- What are similarities you notice? What are differences?
- Which talents do people have that you would like to acquire?
- What talents do you have that could be shared with others?

Diversity



LOGIC PUZZLE

Dog Agility Competition: A puzzle of Diverse Characteristics

Try to solve the following puzzle. Match the breed, name, and best event of each dog in the competition.

Complete the online puzzle at the following link:

<https://www.brainzilla.com/logic/logic-grid/agility-competition/>



FIELD STUDIES

In 2020, someone from every household was responsible for completing a census.

What is the United States Census? Why is it important? How does it relate to diversity? Who and what are part of the U.S. Census?

Research the U.S. Census on the following website and identify the types of questions that are asked and how those questions relate to the diverse needs and realities in our country:

<https://2020census.gov/en/about-questions.html>

What is an additional question that you think should be asked on the U.S. Census? Why?



RESEARCH EXPLORATIONS

Show me the money! From the materials it is made of, to the value, and symbols on its surface, money comes in many diverse forms.

Visit this website: <https://www.usmint.gov/learn/kids> to learn more about how money is made, including the materials used to make it, and what pictures have made their marks on various coins and bills.

After exploring the background information, design your own coin. What value will it have? Will it be a monetary value we already use, or one not in circulation, like the \$2 bill?

Be sure to support your design and its value with valid reasons for your creation.



MATH

Do you know the value of a dollar? Not only does the United States have different types of coins and bills, but money and its value are quite diverse around the world.

In Europe, most countries use the euro and it is the second most traded type of money in the world. The U.S. dollar is the first.

Try your hand at converting money between U.S. dollars to different currencies from around the world at this website:

<https://www.mathsisfun.com/activity/currencies.html>

To learn more about the euro, click this link:

<https://kids.kiddle.co/Euro>



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GRADES

4-5

Diversity



ENGLISH LANGUAGE ARTS

As humans, we come from incredibly diverse backgrounds, cultures, and experiences, yet we are the same in relation to our values, emotions, hopes, dreams, fears, among other things.

Choose and read two stories, myths or folktales from different cultures. Compare and contrast the two stories using a double-bubble thinking map found on this website: <https://www.thinkingmaps.com/why-thinking-maps-2/>

Focus on the themes, topics, patterns of events, characters, story structure and other cultural elements of the stories. How are they different? How are they similar?

Design a symbol that represents the theme and culture of each story.



SOCIAL STUDIES

Art is a varied and diverse subject that appeals to and connects with human emotion. Regardless of the mediums used or the cultural aspects represented, art is universal in its ability to tell a story, influence and educate.

Research the different forms of art using books or the internet. These art forms may include stories or songs of an ethnic group different from your own, or a painting. How do these art forms reflect the lifestyles, beliefs and struggles of that cultural group?

Reflect on your culture and what art forms, stories, and songs best represent you and the narrative or story of your culture.

Compare and contrast the two. How can an understanding of cultural narratives from diverse cultures bring us closer together as a community?



SCIENCE

Fingerprint Science!

Regardless of the diversity of fingerprints, some characteristic patterns are inherited. Though never proven, it is believed that everyone's fingerprints are different. You are more likely to share traits in your fingerprint patterns with family members than with others not related to you.

Using a stamp pad, marker, or ink pen, color the palm side of one of your fingers. Press it on a piece of paper. Examine the lines and curves. Try it again, but this time press your fingerprint on a balloon. Blow up the balloon and examine your fingerprint up close!

Try this with other members of your family. What similarities and differences did you observe?



MINDFULNESS

We all have diverse gifts and talents within us; some we recognize within ourselves and some we might not even realize, but others see in us.

Write your name in a circle on a sheet of paper. Draw a much larger circle around it. Have each person in your family or classroom do the same. Allow for everyone to circulate around the room, writing the gifts and talents observed in others on the rings surrounding their names.

After everyone has contributed to each person's paper, review and reflect on the gifts and talents others see in you. Are they the same as how you see yourself? Are there strengths others see in you that you didn't see in yourself? How do they relate to the diverse gifts and talents you see in others?

Diversity



LOGIC PUZZLE

Dinosaurs: Logic Grid Puzzle

Four gigantic dinosaurs lived in different areas of the world and in different time periods. Which one of those dinosaurs was the longest?

Using the link below, complete the puzzle online to discover the answer:

<https://www.brainzilla.com/logic/logic-grid/dinosaurs/>



FIELD STUDIES

Join the Mission: Team Everyone Counts

On the following website, Mission: Census, Virtual Trip to the Census Bureau, <https://youtu.be/1iMpVlvF4ao> take a Journey for a behind-the-scenes at the U.S. Census Bureau and listen to exclusive interviews with subject matter experts.

On the virtual journey, you will be invited on a mission to discover key details about Census Bureau programs. You will have the opportunity to test your knowledge at the end of the program!

Read one of the stories from the following website: "America Counts: The Story Behind the Numbers" and see how a simple question relates to a larger issue and/or possible solution. <https://bit.ly/2Oy6QfX>

What question do you think should be added to the U.S. Census? What might be the story behind it or what solution might emerge from the story?



RESEARCH EXPLORATIONS

Our world is full of diversity. One familiar symbol that represents a country is a flag. While it's true that each flag is different, there are many commonalities among their design. Watch the following video that shows these commonalities: https://youtu.be/uLV7TCBV_3U

After you watch the video, brainstorm a list of common patterns, symbols, and colors that you observed.

What do the colors and symbols mean? The following website groups similar flags together and explains the meaning of the colors and symbols: <https://www.enchantedlearning.com/geography/flags/colors.shtml>

Create your own flag that represents you, or your whole family, town, or school. Include symbols and colors that will showcase your values and diversity. Create your flag using markers and paper, or fabric and other objects for a mixed media approach. Explain the meaning of your colors and symbols. Share with your classmates.



MATH

There is geometry in art. Using different lines and angles, create an art piece that represents diversity.

Draw at least 5 straight lines that start on an edge of the paper and go completely to a different edge. Then, connect the lines using at least 9 line segments. Be sure to have 3 perpendicular lines and at least one pair of parallel lines.

Notice what types of angles and shapes you have created, using mostly random lines. Add color and give your art piece a title.

Display your artwork for friends and family members to enjoy!

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6-7

Diversity



ENGLISH LANGUAGE ARTS

Good writers have a lot of power. When read by others, a writer's thoughts and feelings are transferred to the reader. It almost sounds like magic. How do they do this? One tool that authors use is sentence variety. They craft sentences to express not only specific ideas, but even feelings.

Read the following sentences:

- The dog was chasing me. I ran. I ran some more. I gasped for air. Could I escape?
- The dog was chasing me and I ran and I ran some more; I gasped for air. Could I escape?

In the first line, the short, choppy sentences accentuate the gasping for air. It conveys to the reader that the narrator is gasping so much that they cannot really run away. In the second line, the choice to write a run-on sentence helps to accentuate the running.

Experiment by writing five pairs of sentences of diverse lengths and formats. Construct sentences about your interests. Then, try to express the same idea by writing it differently.



SOCIAL STUDIES

West Africa is home to more than 500 indigenous languages. This linguistic diversity is greater in any other region of the world. Spoken language in traditional West Africa is prized for its role in storytelling across generations through the art of orature.

Read more about West African Languages at on the following website: <https://bit.ly/2WPUswc>

Consider how language can unite or divide a society. When modern African nations were formed after European colonialism had reshaped country boundaries, how did having citizens from different cultures and with different languages impact the new nation's ability to organize itself effectively?

Jot down your ideas in a journal. Then read this article and add any new thoughts: <https://bit.ly/2ON2Url>



SCIENCE

There are three advantages of sexual reproduction over asexual reproduction:

- It produces genetic variation in the offspring.
- Through variation, species can adapt to new environments.
- Genetic disease is less likely to affect an entire population.

When families marry within the same families, which happened with European royalty in the 19th-20th Centuries, it can cause a recessive gene to have a greater impact, due to the lack of gene diversity. Great Britain's Queen Victoria, through two of her five daughters, passed the recessive gene for hemophilia to various royal houses across the continent, including the royal families of Spain, Germany, and Russia.

Learn more about Queen Victoria's pedigree here: <https://bit.ly/3hyUelH>. Reflect on the impact the lack of diversity has on a bloodline and record your answers in your science notebook.



MINDFULNESS

Think about a time you have witnessed prejudice or discrimination against people with learning disabilities. How did it make you feel? Are disabilities always visible? Do you speak up when someone is discriminated against? Would you change your actions when you see or hear people discriminating against others?

Create a 6-frame story strip illustrating a story of discrimination against someone with a learning disability. Make sure your story strip uses visuals as well as words to tell the story. Focus the story on how to fight against this type of prejudice and the effects of the discrimination.

What will you do in the future to fight against discrimination of people with learning disabilities?

Diversity



LOGIC PUZZLE

KenKen is not quite sudoku and is not a crossword puzzle. Your goal is to fill the grid with numbers, but without repeating a number within the same column or row. In a 3 by 3, KenKen uses the numbers 1-3. In a 4 by 4, KenKen uses the numbers 1-4.

For more help solving a KenKen puzzle go to the official site: <http://www.kenkenpuzzle.com/howto/solve>

Now that you understand the rules, try a KenKen Puzzle: <https://docs.google.com/document/d/1OCMLhRQt5cfCZ-MrGxBINJ9hhFGBWnRpwYJm1un4Wpg/edit>



FIELD STUDIES

Music is an important part of culture. If someone asked you what American Music is, how would you respond?

Explore this idea in the article below from World Music Central, an online magazine dedicated to exploring music from around the world: <https://worldmusiccentral.org/world-music-resources/musician-biographies/american-music/>

After reading the article, determine how you would like to explore this idea further. Some examples are: researching the influence of particular cultures on a genre of music, researching the history of an American genre, and listening to examples of music from several American genres to determine how they are similar.

Complete your research and share what you have learned with someone you know.

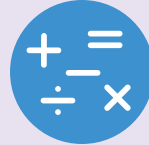


RESEARCH EXPLORATIONS

The biodiversity of rainforests is one of the great characteristics of these regions. Choose two of the five tropical rainforests: Central American, Amazon, Congo River Basin, Madagascar, Southeast Asia to research.

- Specifically, determine how the biodiversity of each forest is similar and different.
- How does diversity help the rainforest to survive?
- How does the diversity of the rainforest benefit humans?

Create a travel brochure for one of the rainforests you researched. Use your brochure to convince a traveler who is interested in biodiversity to visit that particular rainforest.



MATH

The 100 Person Project imagines that our global population only has 100 people. The project's aim is to enlighten people on the racial, religious, and wealth diversity of the world. Think about the makeup of the world while considering race, religion, ethnicity, continents, gender and language. Feel free to add other categories.

Research the world's population and then use your ratio skills to determine how the numbers convert to a population of 100.

Create a presentation using either Google Slides or PowerPoint to present your information. Next, research the demographics of your state, city, county, or school and create a population of 100. How does the new population compare with our global population?

Visit the following link if you need help getting started: <https://www.100people.org/#a>

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8-9

Diversity



ENGLISH LANGUAGE ARTS

One important part of becoming a well-rounded reader is to read literature from authors with a diverse range of perspectives.

Select and read a novel written by an author from Africa, Asia, or South America. Examine how the author or character narrates the text from a particular perspective. How do the author or narrator's culture and experiences influence his/her attitude toward an event, character, idea, or concept within the text? (Hint: If this is challenging, take some time and explore the culture.) What language and rhetorical devices does the author use to advance his/her point of view or purpose?

Share what you have discovered in the format of your choice.



SOCIAL STUDIES

Prior to the Great Migration (1916-1970), 90% of African Americans in the U.S. lived in the South. After six million African-Americans migrated to the North and the West, only 53% remained in the South. The Great Migration not only diversified other parts of the country, but it led to different opportunities for the families that moved.

Smithsonian Magazine details the impact of the Great Migration on American history. Read and annotate the following article on this link: <https://bit.ly/2CxO8Tp>

At the same time, African-Americans were not always welcome in new towns. Read about Sundown towns here: <https://bit.ly/2D0UIS2>

Create a visual display in a format of your choice that helps to portray the impact of the Great Migration on the development of America.



SCIENCE

Biodiversity literally means variety of life. The more plant species that exist, the greater variety of crops can be grown. In some cases, however, biodiversity is essential. For example, some fruit-bearing trees are self-fruitful or self-pollinating, but apple tree pollination requires different varieties of apples to facilitate cross pollination.

Visit this website from the University of Minnesota Extension Agency and learn how to grow apples in your home garden: <https://extension.umn.edu/fruit/growing-apples>

Create an infographic using the information you learned about the importance of biodiversity in growing apple trees. To learn more, study biodiversity on a smaller scale by observing the species in a local pond or a neighborhood park.



MINDFULNESS

"The single story creates stereotypes, and the problem with stereotypes is not that they are untrue, but that they are incomplete. They make one story become the only story." -Chimamanda Ngozi Adichie.

What does this quote mean to you? To gain a better understanding of the author's meaning watch her presentation on this link: <https://bit.ly/2OsYtIT>

- What stereotypes did Chimamanda have of Americans?
- What stereotypes do Americans have of Africans?
- As you listened to the talk, did you feel a sense of connection or identification with Adichie?
- How did you identify with Adiche?
- What are assumptions people make or have made about you? Why might they think that?

Write and record your story which would help others understand something about you that is not easily apparent.

Diversity



LOGIC PUZZLE

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For additional help solving a KenKen puzzle, visit the official site at this link:

<http://www.kenkenpuzzle.com/howto/solve>

Now that you understand the rules, try a KenKen Puzzle here: <https://iota.math.msu.edu/k12-outreach/kenken-puzzles/>



FIELD STUDIES

North Carolina is unusual among states in that it boasts a coastline and mountains. In 1937, the Department of State Advertising started a campaign marketing the state as the "Variety Vacationland."

In 2015, Our State magazine published the following article that features the Variety Vacationland campaign and the factors that contributed to North Carolina becoming such a tourist destination. Read the article here: <https://www.ourstate.com/how-north-carolina-became-variety-vacationland/>

Create a travel blog about places in North Carolina that would be fun for students your age to visit today. Be sure your blog includes a new campaign slogan for the NCTourism industry.



RESEARCH EXPLORATIONS

Research one aspect of culture from a different place you would like to explore. Some examples are sports, entertainment, food, or another topic. While researching, focus on the similarities and differences of teens in different parts of the world. What distinguishes them from each other?

- African Studies: <https://www.bu.edu/africa/outreach/teachingresources/>
- Latin American Studies: <http://lanic.utexas.edu/>
- South and Southeastern Asian Studies: <https://library.columbia.edu/libraries/global/southasia.html>

Consider misconceptions people in the United States might have about different countries and the lifestyles of the people there.

Create a social media post to clarify these misconceptions.



MATH

In 1963 when the Equal Pay Act was passed, the median wage for a woman was \$22,000. The median wage for a man the same year was \$37,000.

Use the interactive graph on the U.S. Department of Labor's website below to determine the median women's wages compared to the median men's wages for each decade. Will men and women ever have the same median wage? Use math to justify your answer.

U.S. Department of Labor's website: <https://www.dol.gov/agencies/wb/data/earnings>

Read the following article to learn more about the wage gap: <https://www.epi.org/publication/what-is-the-gender-pay-gap-and-is-it-real/>



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GRADES

10-12

Diversity



ENGLISH LANGUAGE ARTS

Conflict may arise during difficult times, turning groups of people against one another.

Read and listen to an excerpt from The Book of Sir Thomas More written by Shakespeare on the following website: <https://www.williamlanday.com/2017/02/28/shakespeares-speech-on-immigrants/>

- What is More trying to accomplish?
- How do the allusions, historical references, or the author's choice of words place this in a certain time and location?
- Did the oral presentation have more of an effect than reading the text? Explain why.
- What parts of the text exhibit powerful or persuasive rhetoric?

Rewrite More's speech to address the immigration crisis in the 21st century. Provide details relevant to the current issues and use valid reasoning to persuade your audience.



SOCIAL STUDIES

Nations are protesting in solidarity despite their differences against racism, social injustices, attitudes or beliefs towards protesting that allow them to continue protesting. Protests have spread across the world, from the small islands of Samoa, to the northern tips of Sweden.

View the documented protests on the following website: <https://www.creosotemaps.com/blm2020/>.

If you had to take a stand against something, what would it be? Design a symbol or slogan to show your advocacy. Provide an explanation of what it means and represents.

Consider the following questions:

1. How does it make you feel to see the world come together in unity?
2. What makes these protests different from previous ones in U.S. history?
3. What legal changes would you recommend in support of your advocacy?



SCIENCE

Biodiversity is the variety of life on Earth. It comprises several different levels, starting with genes, then specific species, to communities and finally ecosystems.

Species diversity is a collection of species in one ecosystem. Subsequently, there are species that aren't native to a particular ecosystem, which happens intentionally or unintentionally by humans. The invasive species negatively affects the habitats they enter environmentally, economically, or ecologically.

Conduct research on a species that is considered invasive in your state. Create an educational outreach product such as video, presentation, or poster, that will increase public awareness of the invasive species.



MINDFULNESS

"Look at other people and ask yourself if you are really seeing them or just your thoughts about them."

– Jon Kabat-Zinn

Using the Mirror, Microscope, and Binoculars levels of reflection, think about your own values, assumptions, and biases.

When you pass people on the street you don't know, do you automatically see them in a biased way before even getting to know who they really are?

- Mirror perspective - what did you learn about yourself as you passed people you didn't know?
- Microscope perspective - what did you learn from this experience?
- Binoculars perspective - what are considerations about this experience on a larger scale?

Write a reflective journal entry and include your inference about what Zabat-Zinn is trying to convey, thoughts about the quote, and how the quote makes you feel.

Diversity



LOGIC PUZZLE

An Arab Sheikh tells his two sons to race their camels to a distant city to see who will inherit his fortune. The one son whose camel is slower wins. After wandering aimlessly for days, the brothers ask a wise man for guidance. Upon receiving the advice, they jump on the camels and race to the city as fast as they can.

What did the wise man say to them?



FIELD STUDIES

If you could explore a custom or culture different from your own, where would you like to travel? What would you like to see and learn? What would you like to experience?

Design a travel brochure for the destination of your choice. The brochure should include:

- name and map of your destination
- itinerary highlighting places of interest to visit
- historical facts about your destination
- conversational phrases in the native language - such as to say hello, thank you, and goodbye
- food and traditions
- currency exchange used by locals

Reflect on what you've learned. How is this culture different from the American culture? What traditions intrigued you the most? How has the culture contributed to the world?



RESEARCH EXPLORATIONS

College tours aid many students in making the big decision. Visit the YouVisit website below that provides virtual campus tours of over 600 colleges: <https://www.youvisit.com/>.

Participate in this college scavenger hunt to explore different campuses. Visit a college that:

1. is the oldest in the U.S.
2. is the youngest in the U.S.
3. is a Historically Black College/University (HBCU).
4. has a Major in Bagpiping.
5. has a unique mascot.
6. is a Mormon College.
7. has an unusual design.

Create a chart which compares at least three schools of your choice in these five categories: Areas of study, Tuition rates, Admission requirements, Campus life, Student support services.



MATH

Ethnomathematics is the integration of culture and mathematics. During the Kharif cropping season in India, rice and maize are two of the main crops planted. Farmers conduct crop meetings to discuss what crop is best for the community to plant. The more farmers attend, the better the outcome.

During a recent meeting, some farmers wanted to plant more rice than maize. Other farmers wanted to plant more maize over rice and the remaining farmers wanted to plant an equal amount of both.

If each farmer chose at least one of these crops, how many farmers attended the meeting? Assign variables and expressions to develop your equations.

Solve the problem using a Venn diagram like ones found on the website below: <https://www.onlinemathlearning.com/venn-diagram-word-problems.html>



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GRADES

K-12

Diversity Reference Guide

K-1 Logic Puzzle:

Solution: I can bring things that have double letters.

2-3 and 4-5 Logic Puzzles:

Online source of additional information and solutions:

<https://www.brainzilla.com/logic/logic-grid/agility-competition/>

10-12 Logic Puzzle

Solution: The wise man told them to switch camels.

<http://brainden.com/logic-puzzles.htm>

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DIVERSITY

NC STANDARDS ALIGNMENT

Grade Span	English/ Language Arts	Social Studies	Science	Math
K-1	W.1.2	1.C.1	K.P.2	NC.1.G.3
2-3	RL.3.2	3.B.1.1 3.B.1.2	2.L.2.2	NC.2.MD.8
4-5	RL.4.9	5.I.1.7 5.I.1.8 5.I.1.9 5.I.1.10 5.I.1.11	5.L.3.1	NC.4.G.1
6-7	L.6.1-8.1	7.C.1.1	7.L.2.1 7.L.2.2	RP.3
8-9	RI.9.6-10.6	8.H.3.1	EEn2.7.2	NC.M1.S-ID.8

