

Arizona: Let's Plan a Road Trip

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Grade Level 3-5
Duration 3 class periods

National Standards

GEOGRAPHY

Element 1: The World In Spacial Terms

1. How to use maps and other geographic representations, geospatial technologies, and spatial thinking to understand and communicate information

Element 2: Places and Regions

6. How culture and experience influence people's perceptions of places and regions.

AZ Standards

ELA

Reading

Informational Text

Integration of Knowledge and Ideas

3.RI.7 Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).

4.RI.9 Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.

5.RI.7 Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently.

5.RI.9 Integrate information from several texts on the same topic in order to write or speak about the subject knowledgeably.

Language

Vocabulary Acquisition and Use

3.L.6, 4.L.6 and 5.L.6 Acquire and use accurately grade-appropriate conversational, general academic, and domain specific words and phrases.

Speaking and Listening

Presentation of Knowledge and Ideas

3.SL.4 Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.

3.SL.5 Create audio recordings of stories or poems that demonstrate fluid reading at an understandable pace; add visual displays when appropriate to emphasize or enhance certain facts or details.

4.SL.4 Report on a topic or text, tell a story, or recount an experience in an organized manner, using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.

4.SL.5 Add audio recordings and visual displays to presentations when appropriate to enhance the development of main ideas or themes.

Arizona Social Science Standards

GEOGRAPHY

The use of geographic representations and tools help individuals understand their world.

3.G1.1 Use and construct maps and graphs to represent changes in Arizona over time.

Key concepts include but are not limited to locating physical features including the Grand Canyon, Mogollon Rim,

Colorado River, Salt River, Gila River Key concepts include but are not limited to locating

human features including major cities, counties, Hoover Dam, Roosevelt Dam, and state capital

Key concepts include but are not limited to distinct physical and cultural characteristics of Arizona

including landforms, the 5C's, climate zones, elevations, plants,

animals, Arizona's 22 Indian Nations, diverse ethnic, racial, and religious cultures

4.G1.1 Use and construct maps and graphs to represent changes in the Americas over time.

Key concepts include but are not limited to human and physical features of the Americas, trade and exploration routes, the location of civilizations and societies in the Americas including indigenous peoples, and



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5.SL.4 Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace.

5.SL.5 Include multimedia components and visual displays in presentations when appropriate to enhance the development of main ideas or themes.

MATHEMATICS

Number & Operations in Base Ten

3.NBT.A.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

4.NBT.B.4 Fluently add and subtract multi-digit whole numbers using the standard algorithm.

5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.

5.NBT.B.7. Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.

settlement patterns including the development of the Southern, Middle, and New England Colonies

5.G1.1 Use and construct maps and graphs to represent changes in the United States.

Key concepts include but are not limited to physical and human features of the United States, the regions of the United States and their characteristics, geographic location of major events, the growth of the United States through territorial expansion, demographic changes, and the states and their capitals

SIOP Elements

Preparation

Adapting content

Linking to background

Linking to past learning

Strategies used

Scaffolding

Modeling

Guided practice

Independent practice

Comprehensible input

Grouping Option

Whole class

Small groups

Partners

Independent

Integrating Processes

Reading

Writing

Speaking

Listening

Application

Hands on

Meaningful

Linked to objectives

Promotes engagement

Assessment

Individual

Group

Written

Oral

Arizona English Language Proficiency Standards

Stage III



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Basic

Listening and Speaking

Standard 2: The student will express orally his or her own thinking and ideas.

B-8: presenting with a group, a variety of oral reports (e.g., *expository, cause and effect, persuasive, etc.*) containing an introduction, body, conclusion and transitions, with instructional support.

Reading

Comprehending Text

Standard 4: The student will analyze text for expression, enjoyment, and response to other related content areas. The student will demonstrate reading comprehension by:

B-20: identifying content vocabulary within math, science, and social studies texts.

B-22: locating information for a specific purpose. (e.g., *atlas, glossary, textbook, indexes, table of contents, etc.*)

Overview

Arizona has many exciting cultural traditions and natural resources that can be used for entertainment. But with each of these choices come costs. The costs might be measured in distance, time, money, gasoline, and energy. All of these costs add into making decisions.

Purpose

In this lesson students will use Google Maps to plan a trip and also learn about diverse entertainment options in Arizona. This lesson includes strategies for diverse learners (ELLs).

Key Vocabulary

mileage: distance in miles

admission: the price paid for entrance

(synonyms: *fee, cost, tickets, price, rate*)

address: a location of a place that uses numbers, street names, cities, states, and zip codes

(synonyms: *location; contact information, map directions*)

destination: the place to which a person or something travels

(synonyms: *place, point, area, spot, arrival site*)

Materials

- Arizona Roads map
- Internet access
- Computer lab
- Bookmarked websites: Google Maps, various Arizona tourist sites, Google Images
- Arizona Road Trip Worksheets

- Landmarks in Arizona map
- Arizona Road Trip Presentation (Tasks and Guidelines)
- Scoring Guide for Arizona Road Trip
- Calculators (as needed)
- Arizona Road Trip: Summary

Objectives

The student will be able to:

1. Conduct research about culturally or historically significant destinations in Arizona and locate addresses and pricing information using the internet.
2. Create a road map using Google Maps and use the information to calculate mileage costs.
3. Present the road trip using acquired vocabulary, costs, drawings, and the Google map.

Procedures

Notes to Teacher: Familiarize yourself with using Google maps and adding multiple addresses. Be familiar with + symbol under the search box on the left side which is expandable to add another address. Use the "List all steps" link(also under the expandable search box) to see mileage broken down by each destination. Return to the map by clicking on "View full map" link on the top right side of the map image. Save map by clicking on the tiny icon of a gear in the bottom left side of the screen, choose "Share and embed map", check "Short URL", and write down the address. You can come back to this map and add more destinations later using the link; however, you must save each map after each session. It will have a new URL each time.



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Prior to Lesson: Bookmark some popular Arizona landmarks, attractions, and cultural events so students who need the extra help will have it. Prepare a handout on one tourist destination in Arizona that is also identified on the Arizona Landmarks map.

Prerequisite Skills: Students should know the cardinal and intermediate directions. Students should know how to multiply decimals using a calculator, as needed.

SESSION ONE

Engage:

a. Ask students if they have ever traveled around Arizona, how they got to the destination, what they did there, and how they felt about the destination.

(Preparation: Linking to Background)

b. Tell the students they will be planning a trip in Arizona. They will be using maps, the internet, and a budget to plan this trip. **(Application: Linked to objectives)**

c. Tell them they will be traveling in groups of four. **(Grouping Option: Small groups)**

Explore:

a. Distribute a teacher prepared or commercially available handout of a destination in Arizona to each student. Allow the students time to read and discuss the information with each other. **(Application: Promotes Engagement)**

b. Ask the groups to identify the cities associated with the destinations on the map. Ask the students to figure out a way to travel from one destination to another using a map, as if they were in a car.

(Application: Hands on)

c. Before sharing map and routes with the large group, have students share within their small groups so that ELLs have an opportunity to rehearse their answers. **(Integrating Process: Speaking)**

d. Ask groups to share out their ideas. **(Integrating Process: Listening)**

e. Ask groups to think about ways they could improve how they would travel, either a shorter distance or in a different order of destinations.

(Integrating Process: Listening)

f. Let students know that over the next couple days they will be researching and using Google Maps to plan a road trip in Arizona. **(Scaffolding: Comprehensible Input, Meaningful, Guided practice)**

SESSION TWO

Explain:

a. Explain the task using the Arizona Road Trip Presentation (Tasks and Guidelines) and Arizona Road Trip Worksheets. Working in groups of 4, students will plan a trip through Arizona as if they were traveling in a car. Be sure to explain:

- Each group must visit at least 4 locations or destinations in Arizona and they must be culturally or historically significant.
- The group can only spend \$700, and cannot go over \$700.
- This budget must cover admission costs for four people and mileage.
- This trip must begin and end at the school.

(Scaffolding: Comprehensible Input)

b. Model on the whiteboard how to calculate mileage. For simplicity, use the operating costs of gas for a medium sedan in 2013 from AAA of \$0.15 per mile. **(Scaffolding: Modeling)**

c. Model how to complete the task with a completed teacher model on Google Maps and with a completed student worksheet. **(Scaffolding: Modeling)**

d. Discuss the vocabulary words with the students; mileage, admission, and address. Write them on the board so that students can see them and add to this list. Discuss synonyms for these words since students may need to use inferencing skills while navigating websites in search of these items for their maps. **(Preparation: Linking to Background)**

Elaborate:

a. Pass out the Arizona Road Trip worksheets and Landmarks in Arizona maps. Working in groups of four, groups will begin their internet research to find destinations or events in Arizona to include in their road trip. If sites have been bookmarked, students can begin promptly. **(Application: Linked to Objectives)**

b. Each student in the group will choose one destination and draw a fictional picture of their group enjoying themselves at the destination. They should also complete the Arizona Road Trip: Summary. This should be like a social media post, like a real picture someone might post to Facebook or Twitter. This picture and summary should be used later during the group presentations. The teacher should use this opportunity for a formative assessment for each individual and as a group. **(Assessment: Individual)**

Evaluate:

a. Each group will give a presentation of their road trip graded by a scoring guide using a self-evaluation and a teacher evaluation. Students should use and describe the maps, drawings, and

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calculations in their group presentation. This will be a summative assessment. **(Assessment: Group)**

b. After all the presentations, the teacher should guide a discussion about the destinations or activities to do in Arizona. Ask the students to group the destinations by cost, location, or activity type. Ask the students to make an evaluation or generalization about the things to do and see in Arizona. Are there many things to do? Exciting things to do? Is it an exciting place to travel through? Why or Why not.

Assessment

Students will be evaluated with the Scoring Guide for Arizona Road Trip in the following areas:

Reading

Informational Text:

Students will score 3 out of 4 points for mastery in using details to show knowledge on the subject or destination.

Students will score 80% or higher on completeness and correctness of information on the Arizona Road Trip: Summary.

Speaking and Listening:

Students will score 9 out of 12 points for mastery in giving a organized or sequenced presentation, using the map appropriately, and speaking clearly and at an understandable pace.

Language:

Students will score 3 out of 4 points for mastery in correctly using vocabulary recently and previously learned.

Mathematics:

Students will score 9 out of 12 points for mastery in strategies for addition, subtraction, and multiplication. Evidence for strategies must be shown, not just correct answers.

Geography:

Students will score 3 out of 4 points for mastery in creating a map with the destinations correctly identified on the map.

Students will score 80% or higher on completeness and correctness of information on the Arizona Road Trip: Summary.

Extensions

Students can create a more complex multimedia presentation using Google Treks, PowerPoint, Prezi, etc.

Students can create other maps that include details from fiction or other topics currently being studied.

Students can create a class bulletin board with printed maps, drawings, summaries, and generalizations typed and posted.

Sources

Arizona Road Map

<http://geoalliance.asu.edu/sites/default/files/maps/azroads.pdf>

Google Maps

www.google.com/maps

AAA's Your Driving Costs

<https://exchange.aaa.com/wp-content/uploads/2013/04/Your-Driving-Costs-2013.pdf>

Recommended sites for bookmarks:

www.visitarizona.com

<https://www.planetware.com/tourist-attractions/arizona-usaz.htm>

<https://www.visittheusa.com/state/arizona>

<https://www.azcentral.com/story/entertainment/kids/2015/08/25/summer-road-trip-arizona-kids-families/32159837/>

www.placestoseeinarizona.com

<http://www.tripadvisor.com/Attractions-g28924-Activities-Arizona.html>

Google Treks tutorial:

<http://googletreks.org/tutorial/index.htm>



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