

Lesson M3

PLAN A VACATION

MATH TEKS OBJECTIVES	
§111.22	<p>6b.1 (A) apply mathematics to problems arising in everyday life, society, and the workplace</p> <p>6b.1 (B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution</p> <p>6b.1 (C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems</p> <p>6b.3 (D) add, subtract, multiply, and divide integers fluently</p> <p>6b.3 (E) multiply and divide positive rational numbers fluently</p> <p>6b.5 (A) represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions</p>

CAREER EXPLORATION AND PORTALS TEKS OBJECTIVES	
§127.3 c	<p>5. The student recognizes the impact of career choice on personal lifestyle. The student is expected to: (A) prepare a personal budget reflecting the student's desired lifestyle; (B) use appropriate resources to compare and contrast salaries and educational requirements of at least three careers in the student's interest area *if student is allowed to consider High-Skill, High-Growth Jobs List to make an informed career selection and thus determine a budget based on their chosen career; and (C) evaluate at least three career interests based on budget and salary expectations.</p> <p>6. The student demonstrates an understanding of personal financial management. The student is expected to: (C) simulate different methods of withdrawals and deposits.</p>

Instructional Directions Depending on the parameters chosen by the teacher, this lesson can take 45 minutes – 2 hours and may be a good project-based lesson that can be assigned in part as homework. Or, each worksheet (**Blackline Master M3.1 and M3.3**) can be addressed on separate class days.

There are various ways to implement this lesson. The idea is that it should inspire both informed decision making and creativity while supporting the prevailing concepts of budgeting and consequence.

1. Teachers will distribute **Blackline Master M3.1** and have students read through the project parameters. Their budget must be completed on the accompanying *Vacation Planner* worksheet (**Blackline Master M3.3**). A pencil is recommended for completion to allow for correcting errors in calculation.

2. The teacher may choose to implement as is with the provided approximations for travel expenses, or they can choose to enhance or adapt the lesson with any of the following options (or others of their own choosing):

A. Have student complete the Reality Check activity (found online at texasrealitycheck.com). Have them establish their budget based on one month's salary in their resulting career.

B. Add in luxuries. Students may want to have a “nicer” vehicle that has added perks or they may use a more fuel-efficient vehicle to save money for other items. Either way, they need to research their decision and provide accurate and verifiable data on costs. A rental car website might be a good resource, for example. Sources should be cited.

They may find travel deals for air- or rail-fare that they can incorporate. The budget must still remain the same: \$5,000 or whatever their monthly salary might be (see A. above).



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C. Make it a Family Planning experience. The 7–8 Grade Career Exploration TEKS also include objectives that focus on teamwork and collaboration. Pairing students together as “parents” or into small groups as “families” would allow them to plan a vacation in collaboration while they work on their budgeting and prioritization skills.

Learning Outcome(s)

Students will be able to plan a vacation using a budget. Students will have to estimate expenses (costs), make adjustments based on value judgments, and evaluate outcomes based on goals.

Related Occupations/Industry

Students will be exploring budgeting as it applies to lifestyle decisions and outcomes. The activity also integrates the need to research options prior to decision making. Therefore, the most applicable occupations are: Cost Estimator, Accountant, Financial Analyst, Market Research Analyst and Auditor.

Deliverables Completed Blackline Masters M3.1 and M3.3

Resources Needed • Blackline Masters M3.1, M3.2 and M3.3

IDEAL

- Internet access to maps/research
- Travel Agent/Hospitality SME

LIMITED

- Teacher provides more parameters (such as costs for hotels)
- Ruler
- Map/Atlas

**Vocabulary or Concepts
(New and/or Challenging)**

- Budget
- Miles per gallon
- Miles per hour
- Scale bar (map)
- Scale drawing (map)

MODIFICATIONS & EXTENSIONS

- Go home and talk to parents/guardians about life decisions and circumstance (talking about vacation planning might not always be appropriate based on context)
- Decisions, Decisions game



Name _____

Period _____

Date _____

PLAN A VACATION

You and your family will be taking a seven-day vacation and your parents have told you that you can make all the choices! Where to go? What to see? Where to stay? How long will you be away? What to eat? This is going to be fun!

But, you have to stay within some parameters. First, decide how long your trip will last. For every day that you are on vacation, you must consider the following parameters. This is a driving trip, so you must include the cost of travel by car. You will also need to stay in a hotel. Finally, everyone needs to eat. Complete the questions below. Then review the rules (parameters) for your trip. Plan your vacation in your head then start making decisions for your trip. Fill in the boxes on your Vacation Planner once confirmed. Make sure you stay in budget!

So, where would you like to go? _____

How far is your destination? _____ miles

How many people are on your trip? _____ age 10+ _____ age 0–9 yrs

Your trip must include all the following:

- Budget:** \$5,000
- Transportation:** use your ruler and map/atlas to determine where you will travel, cost of gas, time it will take to travel.
Try not to drive more than 400 miles a day. This may require you to stop and stay overnight somewhere on the way.
Fuel \$3.49 per gallon
Car gets 18 miles per gallon
Car drives 70 miles per hour (on average)
- Lodging:** (based on 4-person occupancy, \$10 for additional occupant; maximum of 5 occupants per room per day)
\$69 for 2 double beds
\$99 for 2 double beds, sofa, and continental breakfast
\$149 for 2 queen beds, sofa, and continental breakfast
- Meals:** each family member is required to have at least 2 meals per day (one of those meals must be dinner).
\$5 Breakfast per person
\$7 Lunch per person
\$15 Dinner per person
- Entertainment:** what activities will you do on your visit?



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Budget Example

VACATION PLANNER

How many people on vacation? 4

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	TOTALS	
starting in Houston, TX	drive to Gulfport, MS	drive to Orlando, FL				drive to New Orleans, LA	drive to Houston, TX		
Transportation									
Distance	402 miles	433 miles				640 miles	350 miles	1825	miles traveled
Travel Time (miles/70 mph)	5.74 hours	6.19 hours				9.14 hours	5 hours	26.07	hours on the road
Cost (miles/18 mpg x \$3.49)	\$77.94	\$83.95				\$124.09	\$67.86	\$353.84	travel costs
Lodging									
Days Inn: 2 double beds + breakfast	\$99.00							\$99.00	lodging costs
Sports Resort @ Disney: 2 qn beds + brk		\$149.00	\$149.00	\$149.00	\$149.00			\$596.00	
Hilton Riverside: 2 qn beds + brk						\$149.00		\$149.00	
Meals (meals total x 4)	\$80.00	\$88.00	\$88.00	\$88.00	\$88.00	\$88.00	\$80.00	\$600.00	meal costs
	lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast + lunch		
Entertainment									
Admission Tickets for Four Days (\$279 per ticket)		\$1,116.00						\$1,116.00	entertainment
Souvenirs for the Kids (\$25 each)			\$50.00	\$50.00	\$50.00			\$150.00	
Tickets for a Riverbarge Cruise (\$32 x 4)						\$128.00		\$128.00	
							TOTAL EXPENSES	\$3,191.84	



Name _____

Period _____

Date _____

VACATION PLANNER

How many people on vacation? __

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6	DAY 7	TOTALS
starting in								
Transportation								
Distance								miles traveled
Travel Time (miles/70 mph)								hours on the road
Cost (miles/18 mpg x \$3.49)								travel costs
Lodging								
								lodging costs
Meals (meals total x 4)								meal costs
	lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast, lunch + dinner	breakfast + lunch	
Entertainment								
								entertainment
							TOTAL EXPENSES	

