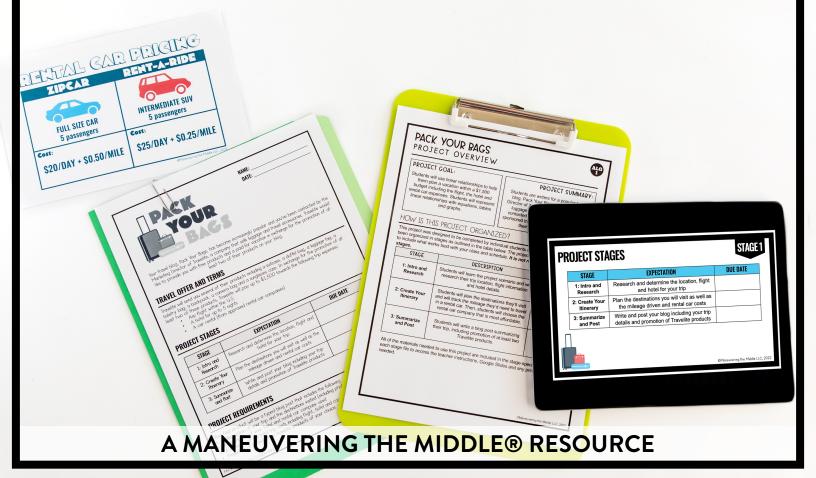
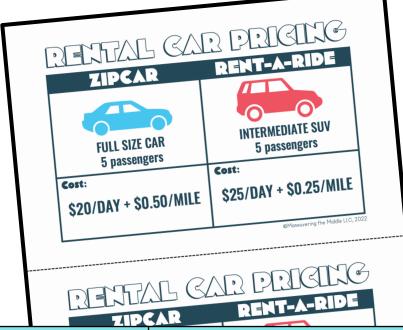
CCSS: F.LE.2 | TEKS: A.3C, A.2C, A.2H

The problem: Your travel blog, Pack Your Bags, has been asked to exchange free products and a paid-for vacation by a company named Travelite in exchange for the promotion of their products on your blog.

The investigation: Students will use linear relationships to help them plan a vacation within a budget and represent linear relationships with equations, tables and graphs.



TIME FRAME: 3-5 DAYS



how is this project organized?

materials needed:

computer

+ internet access

STAGE	DESCRIPTION	TIME FRAME
1: Intro and Research	Students will learn the project scenario and will research their trip location, flight information and hotel details.	1-2 days
2: Create Your Itinerary	Students will plan the destinations they'll visit and will track the mileage they'd need to travel in a rental car. Then, students will choose the rental car company that is most affordable.	1-2 days
3: Summarize and Post	Students will write a blog post summarizing their trip, including promotion of at least two Travelite products.	1 day

WHAT IS THE FINISHED PRODUCT?



ALGEBRA 1 PR	_							
	APO VE STANDARD							
MATHEMATICAL CONTENT	Uses linear relationships to p a trip within a budget withou errors	Pack Your Bags Algebra 1 Project Rubr	ric	Name Date	Pd			
	40 points	PROJECT RUBRIC						
	Demonstrates appropriate reasoning and problem solving							
MATHEMATICAL THINKING	while selecting trip details in order to stay within a budget		APOVE STANDARD	MET STANDARD	BELOW STANDARD			
	15 points		Uses linear	Uses linear	Uses linear			
PARTICIPATION	Participates fully 15 points	MATHEMATICAL CONTENT	relationships to plan a trip within a budget without errors	relationships to plan a trip within a budget with few errors	relationships to plan of trip within a budget with multiple errors			
FOLLOWS TEACHER INSTRUCTIONS AND PROJECT CRITERIA	Follows directions and criter fully	CONTENT	40 points	30 points	20 points			
PROJECT CRITERIA	15 points			Demonstrates some	Demonstrates little			
FINAL PRODUCT	Blog post is well organized a includes all required details  15 points	MATHEMATICAL	Demonstrates appropriate reasoning and problem solving while selecting trip details in order to stay	reasoning and problem solving while selecting trip details in order to	reasoning and probler solving while selecting trip details in order to			
FINAL PRODUCT	includes all required details	MATHEMATICAL THINKING	appropriate reasoning and problem solving	reasoning and problem solving while selecting	reasoning and problet solving while selecting trip details in order to stay within a budget			
PACK YOUR BA	includes all required details		appropriate reasoning and problem solving while selecting trip details in order to stay within a budget	reasoning and problem solving while selecting trip details in order to stay within a budget	reasoning and problet solving while selecting trip details in order to stay within a budget			
PACK YOUR BA	includes all required details  15 points		appropriate reasoning and problem solving while selecting trip details in order to stay within a budget 15 points	reasoning and problem solving while selecting trip details in order to stay within a budget	reasoning and problet solving while selecting trip details in order to stay within a budget 5 points			
PACK YOUR BA Algebra 1 Pr	Includes all required details  IS points  IS points  AGS  OJECT RUPRIC  ABOVE STANDARD  Uses linear relationships to a original relationships to a rip within a budget without	THINKING	appropriate reasoning and problem solving while selecting trip details in order to stay within a budget 15 points	reasoning and problem solving while selecting trip details in order to stay within a budget  10 points  Participates with minor redirects from	reasoning and problet solving while selecting trip details in order to stay within a budget   5 points  Participates with major redirects from			
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rubrics are provided to streamline grading



### PLANNING IS DONE FOR YOU

### STAGE 2 - CREATE YOUR ITINERARY TEACHER INSTRUCTIONS



STAGE OUTLINE

The table below provides a suggested outline for this project stage. The accompanying slide deck follows the outline shown.

9	STAGE	2 - CREATE YOUR ITINERARY (Estimated time: 1-2 days)				
		Give each student a Stage 2: Warm-Up sheet to answer the following:				
WARM	-UP	"When someone visits a new city or location, describe various ways they might determine the best spots and attractions to see."				
		Give each student a Stage 2: Recording Sheet and each group a Car Rental Pricing Information Sheet.				
		3. Using the pricing information and their remaining trip budget amount after Stage 1, students should write and solve an inequality to determine the maximum number of miles they can afford to travel with each car rental company. This is intended to give them a reasonable number of miles that they should be careful to not exceed when creating their itinerary.				
CTACI	- 0	4. Students will use the Car Rental Pricing Information sheet to write an equation and create a graph for each car rental company representing the total cost of the rental car, y, with respect to the number of miles traveled, x. Consider using technology (a graphing calculator, Desmos, etc.) to allow students to create desired.				
STAGE		5. Students should and record the plant of t				

each of the three stages includes teacher lesson plans

### **RENTAL CARS: WRITING COST EQUATIONS**



- For each rental car company:
  - Write an equation to represent the total cost of the rental car, y, with respect to the number of miles traveled, x.
  - Graph each cost equation on the coordinate grid. Be sure to consider axis titles and appropriate intervals for each axis.
- Consider how you can use your graph to determine which rental car company will be cheaper based on the number of miles you will drive during your trip.



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and a slide deck to present the material

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6. Based on the tota determine which

rental will cost.

Students should completing the "T

Students can spe

blog post summa

9. Give each studer

"Describe when eac

EXIT

**TICKET** 

EVERYTHING YOU NEED TO KEEP STUDENTS ON TRACK

	:Date: cost less than the other. When did the two car	rental Wa	dent materia rm-ups t tickets
PAGE 2: EXIT TICKET  Nor escribe when each rental car compa companies cost the same amount?		Date: , describe various ways they might determine the b	
TAGE 2: EXIT TICKET  Nar escribe when each rental car compa panies cost the same amount?	PACK YOUR BAGS: STAGE 2 WARM-UP	YOUR	ME:STAGE 2 ATE:  IP BUDGET AMOUNT:  CAR RENTAL COMPANY #2:  PRICING INFO:
CK YOUR BAGS: STAGE 2 EXIT TICKET	STAGE 2: WARM-UP  Non  When someone visits a new city or loc spots and attractions to see.	MAXIMUM MILES:	MAXIMUM MILES:
	PACK YOUR BAGS: STAGE 2 WARM-UP	CAR RENTAL COMPANY #1  EQUATION:  CAR RENTAL COMPANY #2  EQUATION:	•