Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 1: Choosing Your Car** http://www.carmax.com/enus/car-search/used-cars.html

At Site 1, research the type of used car you would like to buy. You may choose any city/market location.

Make\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Model\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Year \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Mileage\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Price of Car:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (The cost of your car must be at least $7500 or more)

Write a brief description of your car including equipment.

**Part 2: Determining Interest Rates**

**http://www.capitalone.com/auto-financing/rates/?linkid=WWW\_Z\_Z\_Z\_ALUAL\_R2\_02\_T\_ALRA**

At site 2, record the Dealer Purchase: Used loan rate (ARP) listed for each period.

36 months:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

37-60 months:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

61-72 months: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What happens to the interest rates as the period of the loan term lengthens?

**Part 3: Calculating Your Monthly Payment**

[**http://www.carmax.com/enus/car-payment-estimates-calculator/default.html**](http://www.carmax.com/enus/car-payment-estimates-calculator/default.html)

The full cost of a car includes taxes and title and registration fees, which vary by city and state. For the purposes of this lesson we will assume taxes and registration costs of $500. Most loans also require a down payment. We will assume that you will make a down payment of $1,000 for your car.

Following the directions on the Research page, use Site 3 to determine the actual monthly payment for the following three loans.

Monthly payment for 36-month loan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Monthly payment for 37-60 month loan \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Monthly payment for 61-72 month loan \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 4: Finding the Real Price**

To determine the real price or total cost of your car:

1. Multiply your monthly payment times the length of the loan. For instance, the real price of a $15,000 car loan at 8% interest over five years (60 months) would be: the monthly payment of $304.15 x 60 = $18,249.00 in this example.

2. Add the down payment of $1,000 the Research page instructed you to enter into the payment estimator to see the full cost = $19,249.00 in this example.

Use the monthly payments from Part 3 to determine the following total costs.

Total cost for a 36 month loan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total cost for a 37-60 month loan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total cost for a 61-72 month loan: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 5: Examining the Effect of Interest Rates**

If your interest rate increased or decreased by 1%, what would be the effect on your monthly payment and total cost? Use the 37-60 month interest rate you listed in Part 2. Return to Site 3 and determine the effects on your monthly payments and the total cost of your car.

Original monthly payment for 60 month loan (from Part 3): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Add 1% to the 60 month interest rate:

Monthly payment \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Subtract 1% to the 37-60 month interest rate:

Monthly payment:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total cost\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Finally, consider the calculations in Parts 2-5. On the back of the Respond sheet, write a paragraph that advises a friend who is planning to buy a car for the first time. Be sure you address the Focus Question: How do interest rates affect the price of a car?