Student Name: _____   Date: _____   Period: _____

Parking Lot Diversity

<u>Question:</u> Is there a difference in diversity and composition of vehicles in different areas of the parking lot?

<u>Materials:</u>
- Vehicle Identification Key

<u>My Hypothesis:</u> _____

<u>Procedures:</u>
1. Your group is responsible for collecting the information about 10 vehicles in one of the two locations. Your teacher will give you directions about where and how to collect data.

2. Record your data of vehicle make and type on the My Observations of Parking Lot Diversity worksheet.

3. Record the class's data on the Class Data Sheet.

4. Graph the amount of vehicle diversity.

<u>Results:</u>
See your graph.

<u>Conclusion Questions:</u>
- Which <u>makes</u> were not represented in the parking lot? Why?
- What is the most common <u>type</u> of vehicle in your parking lot?
- What might have happened over the last three years that might influence the make and type of vehicles you see in your parking lot?
- Would you expect these (large events) to happen in nature as well?
- Did the makes and types vary between different groups' data? Why might this have happened?
- How does each car fill a specific niche in the vehicular world?
- What animal could you relate to the most expensive cars in the lot?
- Discuss the sample size of this investigation. Did we count all of the vehicles in the parking lot? Is the number counted enough to make a generalization about the entire population of vehicles?

My Observations of Parking Lot Diversity Data Sheet		
Vehicle	Make	Type
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Make	Parking Lot Location #1 –					Parking Lot Location #2 –				
	Group 1	Group 2	Group 3	Group 4	TOTAL	Group 5	Group 6	Group 7	Group 8	TOTAL
Acura										
BMW										
Buick										
Cadillac										
Chevrolet										
Dodge										
Ford										
GMC										
Honda										
Hyundai										
Jeep										
Kia										
Lincoln										
Mercedes										
Mercury										
Mitsubishi										
Nissan										
Pontiac										
Toyota										
Subaru										
Volkswagen										
Other										

Class Vehicle Make Data Sheet

Class Vehicle Type Data Sheet										
	Parking Lot Location #1 – _____					Parking Lot Location #2 – _____				
Type	Group 1	Group 2	Group 3	Group 4	TOTAL	Group 5	Group 6	Group 7	Group 8	TOTAL
Motorcycle										
Sedan										
Sport										
SUV										
Truck										
Van										
Wagon										
Other										

Parking Lot Diversity – Vehicle Make

Number of Vehicles

Vehicle Make

Parking Lot Diversity – Vehicle Type

Number of Vehicles

Vehicle Type