

# Parking Lot Surveys and Graphing

## Activity Summary

In this activity, students will:

- ♦ Survey vehicle attributes in school parking lot
- ♦ Create bar graphs and pie charts based on results
- ♦ Post **Essential Skills** related to activity (wall posting)



## Prior Knowledge

- **Essential Skills**
- Survey methods
- Bar Graphs and Pie Charts from previous examples

## Teaching Planning Notes

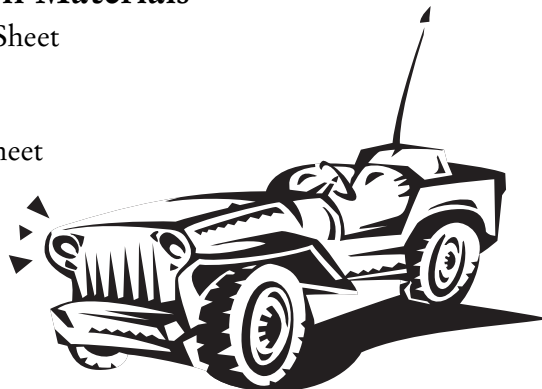
- Review assignment including prior knowledge required
- Provide multiple opportunities for students to practice creating bar graphs and pie charts from existing data
- Provide students with markers and large paper (11" x 17") for their graphs
- Provide students with a checklist
- Provide an exemplar
- Provide students with **Essential Skills** list
- Additional criteria can be added depending on the class (bumper stickers, sunroofs, etc.)

## Assessment and Evaluation of Student Achievement

Task	Tool
Complete Survey	Evaluation Sheet
Bar Graphs and Pie Charts	Evaluation Sheet
<b>Essential Skills</b> Posting	Evaluation Sheet

## Activities and Evaluation Materials

- Parking Lot Assignment Sheet
- Survey Form
- Assignment Checklist
- Assignment Evaluation Sheet



### FOCUS ON LEARNING

#### Essential Skills:

#### Reading Text

*Bar Graphs and Pie Charts*  
**Essential Skills** Wall Posting

#### Writing

*Surveys*  
**Essential Skills** Wall Posting

#### Numeracy

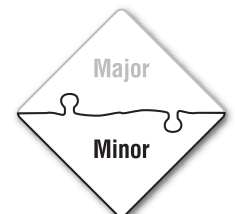
*Surveys*  
*Bar Graphs and Pie Charts*

#### Thinking Skills

*Bar Graphs and Pie Charts*

#### Document Use

*Survey Form and Checklist*





# Check Out Those Wheels!

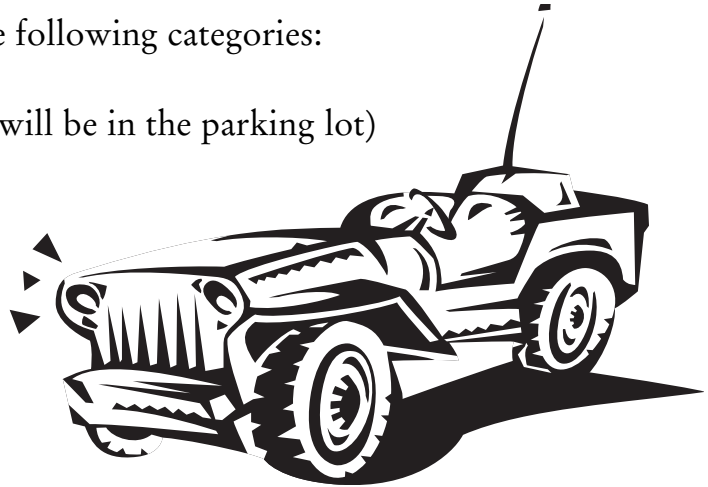
How many red cars are in our school parking lot? How many people buy cars with two doors versus four doors? Do teachers prefer cars over trucks? Are vans still really popular? By completing this assignment we will have a pretty clear idea of what vehicles are popular with the staff at our school! There are three parts to this assignment.

1. **Surveys:** Surveying the parking lot. We will be adding up all the vehicles that fit into different categories.
2. **Graphs:** Taking the results and creating bar graphs and pie charts.
3. **Postings:** Posting the **Essential Skills** required for this assignment on the classroom wall as part of our ongoing “**Essential Skills** for Success WALL OF FAME”

## Surveys

We are adding up vehicles that are in the following categories:  
(See Survey Form)

- colour (list all colours you believe will be in the parking lot)
- 2-door versus 4-door
- type of vehicle
  - ◇ car
  - ◇ sport utility
  - ◇ truck
  - ◇ minivan
  - ◇ motorcycle



## Graphing

Once we have the results, we will be graphing as follows:

- Colour (Bar Graph)
- 2-door/versus 4-door (Pie Chart)
- Type of Vehicle (Bar Graph or Pie Chart)

## Posting - Essential Skills Wall of Fame

Choose one (1) of the **Essential Skills** you used in this activity and describe either in words or pictures some of the tasks you completed where that skill was demonstrated.

Use large paper and markers.



# Check Out Those Wheels! Survey Form

Think about all the different colours of vehicles. Think about all the different types of vehicles. Complete the form below before we head outside to do the survey.

VEHICLE CRITERIA	TALLYING	TOTAL
<b>Colour</b>		
<b>Doors</b>		
2-door		
4-door (vans included)		
<b>Type of Vehicle</b>		

# Check Out Those Wheels! Checklist

- Prior to conducting my survey, did I include all possible colours of cars on the survey form?
- Prior to conducting my survey, did I add all possible types of vehicles to the survey form?
- Did I survey all vehicles carefully in the parking lot?
- Did I calculate the total number of vehicles in the parking lot?
- Have I totalled all my columns carefully?
- Did I create a bar graph for colours of vehicles?
- Did I create a pie chart for two-door versus four-door vehicles?
- Did I create either a bar graph or a pie chart for type of vehicles?
- Did I use appropriate colours or shading to easily identify each?
- Are my graphs clear and easy to read?
- Did I identify an **Essential Skill** I used in this activity and describe the ways in which I demonstrated it?
- Did I create a colourful posting for our “**Essential Skills** WALL OF FAME”?



# Check Out Those Wheels! Evaluation

Use this as your guide and submit with your assignment.

CRITERIA	SURVEY	MARKS
<b>Completeness</b>	Did I complete all areas?	/5
<b>Correctness</b>	Did I tally correctly? Do my totals reflect my tallying?	/10
<b>TOTAL</b>		<b>/15</b>

GRAPHS		
<b>Graph 1: Bar Graph</b>	Is it accurate based on totals? Is it well organized? Is it clearly labelled?	/9
<b>Graph 2: Pie Chart</b>	Is it accurate based on totals? Is it well organized? Is it clearly labelled?	/9
<b>Graph 3: Bar or Pie Chart</b>	Is it accurate based on totals? Is it well organized? Is it clearly labelled?	/9
<b>TOTAL</b>		<b>/27</b>

<b>Essential Skills</b> POSTING		
<b>Essential Skill Identified</b>	Did I identify an <b>Essential Skill</b> related to this assignment?	/1
<b>Associated Tasks Written or Pictorial</b>	Did I create a colourful written component or pictures to show this skill and tasks related to it?	/7
<b>TOTAL</b>		<b>/8</b>

<b>FINAL TOTAL</b>		<b>/50</b>
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