Ryan's Dog Expenses Excel Spreadsheet

Developed by: Sue Flahive

Discipline / Subject: Technology/ Math

Topic: Excel Spreadsheet

Grade Level: 7th and up

Resources / References / Materials Teacher Needs:
Knowledge of Excel
Computer access for each student
Instruction sheet for each student
Internet access (optional)

Lesson Summary:
Using their knowledge of Excel, students will construct an excel spreadsheet with the information provided on the handout.

Standard's Addressed: (Local, State, or National)
1. Understanding the basic use of Excel
2. Communicate information through a spreadsheet
3. Real life application of a spreadsheet

Learning Objectives:	Assessment:
1. Students will construct an Excel Spreadsheet 2. Students will use formulas within the spreadsheet to calculate totals 3. Students will use the tools within the program ie. alphabetizing, fill handles, auto-sum to fill and total the rows/columns, and formulas	Students will turn in completed chart to be evaluated for accuracy as well as formatting of the chart itself. Key included with lesson.

Procedural Activities
1. Each student will be given a copy of the directions for the assignment with a copy of the blank spreadsheet on the back. (for students who have had minimal exposure to Excel, the blank chart helps them visualize what their finished product should look like).
2. *Before the students begin their spreadsheet, it is helpful to review: how to highlight and alphabetize; **how to format the page and explain why we want the page formatted; explain fill handles; remind them that they must type the formulas exactly as they are written; show the auto sum key and explain how to use it.***
3. Review the instructions in the first several steps with the students calling their attention to the bold instructions about alphabetizing.
4. Encourage students to use the blank spreadsheet on the back of the instructions as a visual to help them set up their spreadsheet.

Materials Students Need:

~Previous experience with the Excel program
~Dog Expenses Spreadsheet directions
~A Computer with Excel for each student

Technology Utilized to Enhance Learning:
Excel

Other Information:
If students fail to alphabetize the dogs at the point the directions instruct them to do so the information for each dog may not be accurate.

Modifications for Special Learners/ Enrichment Opportunities:
Accelerated students could be encouraged to research and find their own information for costs in the chart possibly adding other columns of information.
Students with a proficiency with Excel can be encouraged to use fonts, bold titles and totals, and use various borders with in their charts
Special Learners can be paired with stronger students to give the one on one directions and visual directions that these students may require with a computer activity.

Dog Expenses Spreadsheet

Inspired by Santa Spreadsheet by Karen K. Payne (Educational Oasis, Issue 47, 1994)

Ryan Redington is a 3rd generation Alaskan musher, so he has been running dogs since he could reach the handlebars on the sleds. His grandfather, Joe Redington Sr., founded the Iditarod Trail Sled Dog Race. Ryan now has his own kennel and uses spreadsheets to keep up with the expenses this business costs him. The following information is what Ryan needs entered on his spreadsheet for the year 2006. The Iditarod is coming and Ryan's training schedule is intense. Please save Ryan some time and use the information below as well as your knowledge of Excel to construct a spreadsheet for him.

- ☃ Type the following information in the header. Center the title of your spreadsheet ***"Ryan's Dog Expenses for 2006"***. Type your name, date and period so it will be in the upper right corner.
- ☃ **Columns**: Sets (representing the sets of booties per dog), Name, Food, Vet Bills, Booties, Misc, Final Cost
- ☃ **Rows**: Foxy*, Sugar*, Annie*, Maxwell*, Flame, Sampson, Greg, Kevin*, Klondike*, Slick*, Kaboo*, Chief, Total Costs (* indicates dogs that finished the 2006 Iditarod be sure you note these dogs on your spreadsheet; also note that the 4 underlined dogs are females)
  ~After typing the names into your spreadsheet, highlight the names and alphabetize them.
- ☃ Enter the following data into the correct cells after you highlight the chart from column B to G and format the spreadsheet for currency— go to format, cells, currency, 2 decimal places.
- ☃ **Food**: The dogs eat a mixture of meat and dry food. The average cost a day is $1.25 per dog. {Type in the formula =***1.25*365*** and hit enter. Use the fill handle to drag this amount to the other 11 dogs.}
- ☃ **Vet Bills**: Annie had puppies last June. Her vet check-ups were $170. The towline got tangled on a practice run. Sugar, Kaboo, and Foxy required vet care and medicine that came to $65 for each dog. Sampson and Greg required additional vet care after being dropped during the Iditarod; vet bills were $60 each. All other dogs needed pre-race check ups at $35 each.
- ☃ **Booties**: Ryan has counted his booties and determines that the dogs that were dropped in the 2006 race need new booties as follows: Sampson—8 sets; Flame—13 sets; Greg—11 sets; Chief—18 sets. All other dogs need 25 sets of booties. Booties cost $.80 each and dogs have 4 feet. {Type in the formula =***sum(.80*4*A2***) in cell E2. Use the fill handle to drag the formula into the remaining column}
- ☃ **Misc:** All 8 finishers of the 2006 Iditarod needed new running coats at $40 for the females and $45 for the males. Greg and Chief needed new reflective collars at $8.50 each. Sampson needed new dishes, tieouts and a dog house for a total of $30. Flame needed a new harness for $18.95.
- ☃ Be sure to change your page set up to landscape and center your chart.
- ☃ Be sure the gridlines are showing on your chart by using the border buttons. Use your print preview before you print your final spreadsheet to turn in to be graded. **Remember you only get to print one sheet!**
- ☃ If you have time import a picture from the internet or add clip art to decorate your sheet.

{All situations listed above are made up for the purposes of creating this activity with the exception of the names of the dogs that completed the 2006 Iditarod.}

Ryan's Dog Expenses for 2006

Sets	Name	Food	Vet Bills	Booties	Misc	Final Cost
25	Annie*	$456.25	$170.00	$80.00	$40.00	$746.25
18	Chief	$456.25	$35.00	$57.60	$8.50	$557.35
13	Flame	$456.25	$35.00	$41.60	$18.95	$551.80
25	Foxy*	$456.25	$65.00	$80.00	$40.00	$641.25
11	Greg	$456.25	$60.00	$35.20	$8.50	$559.95
25	Kaboo*	$456.25	$65.00	$80.00	$45.00	$646.25
25	Kevin*	$456.25	$35.00	$80.00	$45.00	$616.25
25	Klondike*	$456.25	$35.00	$80.00	$45.00	$616.25
25	Maxwell*	$456.25	$35.00	$80.00	$45.00	$616.25
8	Sampson	$456.25	$60.00	$25.60	$30.00	$571.85
25	Slick*	$456.25	$35.00	$80.00	$45.00	$616.25
25	Sugar*	$456.25	$65.00	$80.00	$40.00	$641.25
	TOTAL COSTS	$5,475.00	$695.00	$800.00	$410.95	$7,380.95

Ryan's Dog Expenses for 2006

Sets	Name	Food	Vet Bills	Booties	Misc	Final Cost
	Foxy*					
	Sugar*					
	Annie*					
	Maxwell*					
	Flame					
	Sampson					
	Greg					
	Kevin*					
	Klondike*					
	Slick*					
	Kaboo*					
	Chief					
	TOTAL COSTS					