



# SCOUT ELF SCHOOL™



## Lessons from Scout Elf School: **Gifts & Graphs**





## Note to Teacher

In the stories of Scout Elf School, Scout Elf helpers sort and analyze important information on behalf of Santa. In this activity, students will learn to gather, organize, and interpret data with a simple bar graph.

## Category

Math      Data      Graphing

## Activity Instructions

- Provide students with copies of the Snow Pal and Accessories printables.
- Explain that students' responses will generate data that they can move to a bar graph.
- Clarify that a bar graph is a chart that shows bars of different lengths to measure and compare results. Bar graphs are represented by a vertical axis displaying numbers and a horizontal axis displaying values of a topic that has been researched. In this case, the number of students in the classroom and the number of students who choose the following options.
- Ask students to color:

THE...	IF...	OR...	IF...
hat blue	they prefer to listen to music	red	they prefer to read a book
mittens green	they ate/will eat a sandwich for lunch	yellow	they ate/will eat something besides a sandwich for lunch
nose orange	they are wearing shoes that tie	black	they are wearing shoes that do not tie
buttons black	they have at least one pet	red	they have no pets
scarf green and yellow	their hair is curly	green and red	their hair is straight





## Activity Instructions (cont'd.)

- Students will then cut out each accessory and adhere them to their snow pal.
- Students may add their own accessories to their snow pal scene for personalization: glasses, toys, shoes, earrings, shovels, brooms, etc.
- Display the snow pals on a bulletin board for analysis.

### Beginning learners:

- Ask students to use close listening skills to color their snow pals based on their preferences.
- Tally the results together, as a class, to create a simple bar graph for each value.
- Analyze the data as it relates to your classroom, i.e., fewer of our classmates ate sandwiches for lunch than other foods, more classmates have at least one pet, etc.

### Progressing learners:

- With the snow pals on display, students can work in small groups or as a class to create bar graphs representing the data they have collected.
- Interpret the data as a class, converting to fractions or percentages of the whole.

### Advanced learners:

- With the snow pals on display, students can work together or independently to create bar graphs representing the data they have collected.
- Students will analyze and transfer the data they collected to create Venn diagrams and/or other more advanced graphs based on the results of their bar graphs.