## Title: Read and Create a Bar Graph



## Standard(s) Addressed in Lesson

Use Math to Solve Problems and Communicate

## Benchmark(s) Addressed in Lesson

M.4.20 Collect, organize and interpret data sets involving a single variable.
M.4.21 Create and interpret data sets using simple frequency distributions and appropriate graphs.

## Materials

graph paper, colored pencils, samples of bar graphs in newspapers and texts, Smart Board or overhead projector (optional), computer, access to website: http://www.ncsu.edu/labwrite/res/gh/gh-bargraph.html

## Learner Prior Knowledge

Students should be familiar with the information that will be used in creating their bar graphs. Graphs will include data relevant to life or to the field of study they plan to pursue.

## Activities

Step 1 Show samples of horizontal and vertical bar graphs using data from newspapers, texts, and the above website. Samples can be shown on an overhead projector or on a Smart Board.
Step 2 Discuss importance of reading the title and the information illustrated on the $x$-axis and $y$-axis. Discuss as a group several sample bar graphs.
Step 3 Help students determine the information they want to show on a bar graph. They will title the graph and determine the information to list on the $x$-axis and $y$-axis.
Step 4 Students will create a bar graph related to their future field of study, their job, or of relevance to their lives.
Step 5 Students will share their bar graphs with a partner.

## Assessment/Evidence

Collect and display the students' bar graphs. Have students discuss which ones clearly show the data.

## Adaptations for Beginning Students

Beginning students may work with a partner.

## Adaptations for Advanced Students

Advanced students might want to create line and pie graphs.

## Teacher Reflection/Lesson Evaluation

This lesson was created by Middletown ABLE.

