South Carolina Academic/Career Development Integration Activity

Title **The More You Learn…. (EM-3)**
Subject **Math** **Grade Level(s) 4**

SC Content Standard – Data Analysis and Probability: Grade 4. Standard 4-6. Through the process standards students will demonstrate an understanding of the impact of data collection methods, interpreting and organizing data, the appropriate graph for categorical and numerical data, and analyze possible outcomes of a simple event.

Indicator: 4-6.3 Organize data in graphical displays (tables, line graphs, bar graphs, with scale increments of greater than one.) (C4)

National Career Development Guidelines Goal/Indicator
Career Management GOAL CM3. Use accurate, current, and unbiased career information during career planning and management.

Indicator CM3.K2. Recognize that career information includes occupational, educational, employment, and economic information and that there is a range of career information resources available.

Career Development Objectives
1. Students will demonstrate the ability to organize data in graphical displays.
2. Students will understand that people with some type of postsecondary degree or training earn more than people with a high school diploma or less education.

Assessment
1. Students will correctly organize data about education levels and earnings into a graphical display.
2. Students will write a short composition that correctly interprets the information on their graphical display (i.e., people with some type of postsecondary degree or training earn more than people with a high school diploma or less education).

Preparation
• Prior Learning—Instruction in creating graphical displays
• Handouts/Worksheets—*Weekly Earnings by Education Level* handout
• Resources/Materials—writing materials, *Where the Jobs Are*
• Time Required—45 minutes plus homework (writing assignment) and discussion

Procedures
Part One
• In this activity, students will organize data in graphical displays.

• Review with students how to organize data in graphical displays.
• Give students the *Weekly Earnings by Education Level* handout and review it with them.
• Tell students to organize the data in a graphical display. They may use a table, line graph, or bar graph.
• After students have completed the assignment, discuss what graphical display was most effective for this data.
• For homework, have students write a short composition that correctly interprets the information on their graphical display.

Part Two — Career Development Connections
• Begin the discussion by telling students that the Federal and state governments collect all kinds of information about employment outlook. What jobs are growing and not, what kinds of jobs employ the most people, wage and salary information, and more. (Note: the resource *Where the Jobs Are* [www.acrnetwork.org] explains employment outlook information).
• Engage students in a discussion about the data they graphed. What did they learn from the data?
• Briefly discuss the different education levels. Have students brainstorm some occupations that might be of interest to them. What education levels do the jobs require?
• Remind students that education is the main way people get the work skills they need. As students, they develop many work skills in school. Reading, writing, speaking clearly, understanding math and science, problem solving, and working well with other students are all important work skills. By continuing their education/training after high school, they can learn the special skills required by an occupation.

Crosswalks
SC Career Guidance Standard/Competency
Learning to Work Standard 3. Students will explore careers and the connection of school to work.
Competency 3.3. Identify resources for career planning.

Key Employability Skills
Thinking Skills—Critical thinking
Information Management—Acquires, interprets, and communicates information

* Adapted from *Career Development Tool Kit, Grades 6-8*, Linda Kobylarz & Associates, 2000. Used with permission.

Weekly Earnings by Education Level

Doctoral degree
$1,349

Master's degree
$1,064

Associate degree
$672

High school graduate
$554

Bachelor's degree
$900

Some college, no degree
$622

Some high school, no diploma
$396