

#### 4th Grade Math Tutorial Activity

**Objective:** 4.6 – Plot points that represent ordered pairs of data from many different sources such as economics, science experiments, and recreational activities.

**Overview:** Student will identify ordered pairs and develop an understanding of the fact that the first number moves them along the horizontal axis (across the bottom) and the second number moves them along the vertical axis (upward). The student then applies this knowledge to locate points from ordered pairs that will spell out some expressions from the North Carolina mountains. This is a companion activity for the "Using Coordinates" activity.

**Materials:** copy of "Expressions of Appalachian Mountain Folk" worksheet, pencil, blank graph paper.

#### Procedures:

**Introduction:** Ask the student if he/she knows what an ordered pair is. If not, demonstrate how one is written (2,4) and how to locate this point on a grid or graph. Stress that the first number moves horizontally and the second vertically. Demonstrate for the student by locating the first several points on the worksheet. Use the vocabulary of coordinates and ordered pairs in discussion.

**Practice:** Assist the student in locating and plotting points until they are able to do so independently. They will write the letter near the plotted points to spell out the expressions.

**Independent Practice:** Student completes the worksheet independently. Student may then think of some expressions he or she uses and spell them out by plotting points on a grid and putting the letters that spell their expression near the points. Then they may create their own worksheet similar to the one they have completed on Appalachian Expressions.

**Closure:** Discuss ways grids are used in other situations, such as maps.