

# A STEM in the Park Take Home Activity

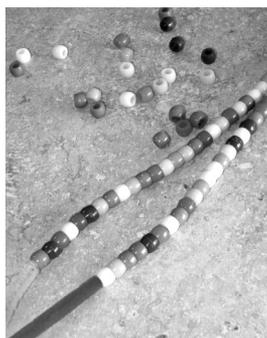
## STEM in the PARK

Science, Technology, Engineering, and Mathematics

### Pattern Bracelets

#### What You Need

- Different colors of beads
- Pipe cleaner or string



#### What To Do

- Create your own pattern on your pipe cleaner with the beads

#### Learn...

There are many different patterns such as repeating patterns, and growing patterns. Repeating patterns are groupings of anything that is predictable and reoccurs. Repeating patterns consist of the same grouping over and over, the pattern never changes and it can be made up of a long or short sequence. Growing patterns are patterns where the sequence changes every time it repeats and something is added to it in every sequence. Recognizing patterns helps students develop skills that are beneficial for success in mathematics. See the examples below:

Repeating Pattern: 

Growing Pattern: 

*Continued on back*

## ***Investigate...***

- Now that you can make patterns with beads try making or seeing other patterns. For example make different patterns with shapes.

## ***For Older Students***

- Give students different materials, for example 4 red beads and 4 white beads as well as a piece of string. Then ask students how many different bracelets or necklaces they can make with the given materials.

***This activity is brought to you by the BGSU Science and Mathematics Education in ACTION Program.***

