# LEARNING PLAN 6th Grade

## Exploratory Activities
- Guess My Rule
- Flip & Skip

## Concept Development Activities
- Guess My Rule – Explorations – S56
- Function Machine
- Function Factory A-F
- Patterns – Lane County – pp13-15
- Patterns 1-6
- Variables & Coordinate Graphs: Investigation #1

## Concept
### Variables & Relations

### Materials and Resources
- Construction paper
- Rainbow cubes
- Graph paper
- Adding machine tape or butcher paper
- Connected Math: Variables and Patterns
- Algebra Puzzles and Problems Gr.5
- NCTM Addenda Series: Patterns and Functions
- Algebra Thinking: First Experience
- TEXTEAMS: Proportionality

### Basic Facts and Standard Algorithms Formalized
- Sequences: Passport pp. 4-7
- Variables and Patterns Investigation 1 Applications pp. 10-16
- Additional Practice pp. 132-133
- Formulate an equation from a stated problem

### Assessment
- Patterns & Functions Assessment p 40
- Exemplars “Bridges”; “Trains”
- Middle Grades Assessment (Package 2) Task 1 Toothpicks;
  Task 12 “Pat’s Pattern; Task 1
- Have students write a stated problem to match a given equation

### Originality and Creativity
#### Student Products
- **Written**
  Describe a pattern and the relationship found in a pattern you created
- **Verbal**
  Tell the class about a pattern that you created
- **Kinesthetic**
  Create a pattern similar to patterns 1-6 and demonstrate it to the class
- **Visual**
  Create and display a pattern on a poster

### Related TEKS
**TEKS:** 6.4.A; 6.4.B; 6.5.A; 76.7.A

© 1999 by the Rice University School Mathematics Project (RUSMP)