# LEARNING PLAN 7th Grade

## Exploratory Activities

**Algebra 1st Thinking: “Tables”**  
**Problem Solving in Mathematics 7: “Sense or Nonsense”**  
“What Percent of the Area?”

## Concept Development Activities

**Ratio and Proportion**

- **Concept**: Ratio and Proportion

- **Materials and Resources**
  - Algebra 1st Thinking Experience pp.3-15
  - Lane County: Problem solving in Mathematics 7
  - Connected Math: Comparing and Scaling: Investigation 2-4
  - Texteem: Proportionality
  - Colored cubes
  - Graph paper, dots, meter sticks, markers
  - Passports pp. 298-299
  - Activity Sheets VII-1A, 1B

### Comparing and Scaling

- **Investigation 3**: Proportionality: “Relevant Ratios” or Comparing and Scaling
- **Investigation 4**: Proportionality: “Perfect Paint Color”
- **Investigation 2**: Proportionality: “Percent Bars”
- **Similar Polygons Lab 6.6**: Similarity and Equivalent Fractions: “Morris”
- **Investigation 2**: Comparing and Scaling
- **Investigation 4**: Comparing and Scaling

## Basic Facts and Standard Algorithms Formalized

- **Unit Rates**: Passports pp. 278-279
- **Solving proportions**: Connected Math: Comparing and Scaling – Applications pp. 44-50; Additional Practice p. 153-156
- **Finding missing sides of similar figures**: Passports pp. 300-309
- **Finding Percents**: Passport pp. 286-309, 326-361

## Assessment

- **Smart Shopping E-F**: Project clear
- **Proportional Reasoning**: Eel, Gum, Bank or Pizza problem
- **Task**: p. 11-6; 11-10; 11-12; 11-13

## Related TEKS


## Originality and Creativity

### Student Products

**Written**
- Write an editorial article for a newspaper explaining which is the better buy: 4 for a $1.25 or 3 for a $1.00

**Verbal**
- Explain to your group how you would know which is the better buy 4 for $1.25 or 3 for a $1.00

**Kinesthetic**
- Make a concrete model show which is the better buy.

**Visual**
- Make a poster illustrating which is the better buy.