# LEARNING PLAN

## Exploratory Activities
- Pencil Box Illustration

## Concept Development Activities
- **Meaty Mystery** (Addison Wesley)
- Selected Puzzles from Creative Publications’ *In the Balance*
- Solving Linear equations using Lab Gear & TEXTEAMS
- **Algebra I Institute** 2-192 through 2-197
- Solving Linear Equations using pictorial representation
  - *The Write Tool to Teach Algebra* (p. 22-24)
- **Balance Pictures**
- Making up equations satisfying given conditions
- Solving Linear Equations using the table feature of the graphing calculator
- **Relay Race on solving equations**

## Concept
- Linear Equations and Inequalities (in one variable)

## Materials and Resources
- **graphing calculator**
- **rainbow cubes**
- **cups and counters**
- **white recording paper and pens**
- Key Curriculum’s *The Write Tool to Teach Algebra*
- Creative Publications *Algebra: Themes, Tools, and Concepts* and *In the Balance* (4-6) and (7-9)
- *Lab Gear Activities for Algebra I* 
- **TEXTEAMS Algebra I Institute**
- **Test Items**: EOC and TAAS

## Basic Skills and Standard Algorithms Formalized
- Assign problems from the adopted textbook (McDougal Littell’s *Algebra I Explorations and Applications*) from Sections 2.1, 2.2, 4.2, 4.3, 4.4, 4.6 to build skills in solving equations.

## Assessment
- **Performance Task:**
  - **Hands on Equations**: Solve an equation using a student selected manipulative
- **Interview:**
  - Class writes a set of questions on strategies for solving linear equations. Students pair off and interview one another. Student writes a report on the interviewee.

## TEKS
- b.4.A, c.3.B

## Test Items From Algebra I EOC exams
- **Spring 2000:** 2, 14, 24, 34, 37, 39
- **Spring 2001:** 3.6.16.19.21.32.34
- **Spring 2002:** 11,16,19,22,25,31,36

## Originality and Creativity
### Student Products
- **Written**
  - Write a letter to a friend explaining how you solve linear equations your favorite way.
- **Verbal**
  - Design and implement a debate on “Resolved: that ____________ is the best method for solving linear equations.”
- **Kinesthetic**
  - Invent equations and demonstrate solving them using Lab Gear.
- **Visual**
  - Compare and contrast visually two methods for solving linear equations.

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