# LEARNING PLAN on Measurement

## Exploratory Activities
- **How Big is a Foot?** By Rolf Myller – discuss need of standard units of measurement and where it’s used in America.
- String Rings
- Bead Rulers

## Concept Development Activities
- Scavenger Hunt Activity
- Measurement Matters
- Measure by Measure
- Using a Scale Drawing
- Using a Table
- Using Applications
- Organizing Information
- Mile Walk (consult Physical Education Teacher)
- Customary Units for Length Worksheet p.93
- Less Than an Inch
- Event 31 – ‘The Pleasure of Measure…”
- How Do You Measure Up?
- Build a Yard Center
- Maddening Measurement Game
- Lesson #5 – Measurement Task Cards
- Give an Inch Activity
- Are you a Square?
- Maddening Measurement Game
- Less Numbers Measurement Task Cards
- Give Me an Inch Activity
- Weekly Measurement Student Record

## Concept
- Linear Measurement using Customary Units (for grades 3-4)

## Materials and Resources
- Project Clear (HISD)
- RUSMP binder
- Alief ISD workshops (Gloria Medlenka)
- Beads
- Nylon string
- Rulers
- Yard sticks
- Furniture catalogs
- 1-inch grid paper
- construction paper
- pens and pencils
- manila paper
- crayons
- string
- dice
- PE teacher
- Colored pencils
- Scissors
- “Maddening Measurement” Record Sheet
- **How Big is a Foot?** By Rolf Myller
- Everyday objects to measure
- Strips of butcher paper
- Bags of dimes, pennies, nickels, quarter, paper clips, pencils
- Build a Yard cards
- trundle wheel
- Glue
- “Give Me An Inch Packet” and Worksheets
- Weekly Student Record Sheet
- Exemplar Assessment Rubric
Basic Facts and Standard Algorithms Formalized
- Customary Conversions
- Use Measurement Study Sheet –
  12 inch = 1 foot**
  3 feet = 1 yard**
  36 inches = 1 yard**
  Long distances/length = Mile**
  Intermediate distances/length = feet/yard**
  Smaller distances/length = inches**
  **All using rulers/yardsticks/trundle wheels
- Realization that Americans utilize customary instead of metric units of measurement, which are used globally.
- Identify and use correct vocabulary of measurement.

Assessment
Formal:
- Design a Wall Unit
- Weekly Measurement Student Records Sheet
- Conversion Packet
- Discovery Report
- Trundle Wheel walk
- Ant in the Wall Exemplar
- Estimating Measurements in the U.S. Customary system

Informal:
- Teacher observations of scavenger hunt
- Center activities
- Fourth Grade Work Station record sheet
- Lengthy Questions conversion

Related Math TEKS
3.12  4.12
3.13  4.13
3.14  4.17
3.15  4.14
3.15  4.15
3.16  4.16
3.17

TAKS Objectives:  4, 6

Originality and Creativity
Student Products

Written
- Write a discovery report on “Are you a Square?” including a “how to” format, observations, surprising/interesting results, what was learned from the activity, and what advice would be given to someone who is starting the activity for the first time.
- “Ant in the Wall” Solution Explanation Exemplar

Verbal
Present Scavenger Hunt findings

Kinesthetic
Using a trundle wheel, measure an area inside or outside the school and find the perimeter (each partner group will have a different area)

Visual
Draw a model of a wall unit design use a scale.
“Ant in the Wall” solution drawing exemplar