# LEARNING PLAN

## Exploratory Activities
- **Recognizing patterns:** *I See Patterns*
- **Rhythmic patterns:** *Mr. Noisy’s Book of Patterns*
- **Song:** “Patterns All Around”
- **Creating patterns:** Pocket Chart Quilt See attached…

## Concept Development Activities
- **Copy patterns:** Overhead Pattern Blocks, Quick Quilts
  - **Center:** Sound/Movement/Action Cards, Quilting Tiles
- **Extend patterns:** Border Pocket, Adding Machine Scroll
  - **Center:** Unifix Cubes folders, Sticker folders
- **Create patterns:** People Patterns, Color Tiles
  - **Center:** Connecting People, Linking Elephants, Buttons
- **Circular patterns:** Get in Position
  - **Center:** Paper Plate Wreath
- **Growing patterns:** Line Up
  - **Center:** Task Card Completion
- **Tessellations:** Pop Out Patterns
  - **Center:** Pattern Block Poster, Tessellating Curlies
- **Symmetry:** “Simon Says” Body Parts Are Symmetrical
  - **Center:** Symmetry with Paints: Butterfly
- **Relationships:** Daily Analogies
  - **Student Product:** *A House Is a House for Me* booklet (See student product list below)
- **Functions:** What’s My Rule?
  - **Center:** Go Fish folder Game
- **Make predictions:** What’s Missing?
  - **Center:** Humpty Dumpty folder game
- **Explain cause-and-effect:** If You Give a Mouse a Cookie
  - **Center:** Because folder Game
- **Counting activities:** 1-100 Pocket Chart
  - **Center:** Magnetic Number Chart
  - **See attached…**

## Concept
- **Patterns, Relationships, and Algebraic Thinking**
  - *(for Kindergarten)*

## Materials
- **Books:** (See list below.)
- **Blank paper, Sentence Strips**
- **Song poster, pencils, crayons**
- **Quilt Block Design Cards**
- **Pocket Chart and Stand**
- **Overhead and regular Pattern Blocks**
- **Quick Quilts Template, scissors**
- **Construction Paper Triangles, glue**
- **Action Cards, Quilting Tiles**
- **Cardboard Pocket, Border samples**
- **Adding Machine Tape, film canisters**
- **Unifix Cubes, Color Tiles**
- **Teacher-made folder games**
- **Connecting People, Buttons**
- **Linking Elephants, Paper plates**
- **Task cards with growing patterns**
- **Pop Out Pattern papers and template**
- **Pattern Block poster, Paint**
- **Tessellating Curlies, Butterfly outline**
- **Daily Analogies samples**
- **What’s My Rule? poster, markers**
- **Overhead numerals, index cards**
- **Hundred’s Board Pocket Chart with cards**
- **Magnetic 100 boards and #s**
- **Paper Punches, construction paper**
- **Wood blocks, shape/thematic pasta**
- **Flannel board, flannel shapes**
- **Pattern Block Stencils/Templates**

## Resources
- **I See Patterns,** Linda Benton, Creative Teaching Press 1995
- **Mr. Noisy’s Book of Patterns** Rozanne Lanczak Williams, Creative Teaching Press, 1995
- **A House Is a House for Me,** Mary Ann Hoberman, Puffin Books, 1982
- **If You Give a Mouse a Cookie,** Laura Numeroff,
  - **Patterns,** Samantha Berger, Scholastic, 1999
- **Patterns All Around Me,** Trisha Callella-Jones, Creative Teaching Press, 1995
- **Too Many Thanks,** Maggie Myers, Charles A. Dana Center, 1999
- **Project CLEAR HISD Curriculum**
- **Everyday Mathematics** The University of Chicago’s School Mathematics Project
- **AIMS Education Foundation**
- **Impact II Center It Math folders**
**Basic Facts and Standard Algorithms Formalized**

Identify, extend, and create patterns of sounds, physical movement, and concrete objects.
Use patterns to predict what comes next, including cause-and-effect relationships.
Count by ones to 100.
Identify mathematics in everyday situations.
Explain/record observations using objects, words, and pictures.
Reason and support thinking.

**Assessment**

Teacher’s Observations of Students’ Performance/Activities

Oral Counting with song

EXEMPLAR – “All in My Family”

**Related TEKS/TAKS**


**Stanford 9**

Identify a missing element in a number pattern.
Identify the position of a missing element in a number pattern.
Use skip counting to complete a number pattern.
Identify ordinal positions.
Identify matching geometric patterns.

<table>
<thead>
<tr>
<th>Originality and Creativity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Products</strong></td>
</tr>
</tbody>
</table>

**Written**

**Booklet** – “A House Is a House for Me”
- relationships

**List** – Rhyming Words – sound patterns

**Verbal**

**Song** – “I’ve Been Working on My Numbers” – oral counting patterns

**Paper Punches** – Label and describe. – create patterns

**Kinesthetic**

**Pasta Patterns** – create a pattern

**Block Buildings** – symmetry

**Visual**

**Flannelboard** – flannel shapes – create a pattern

**Recording** – pattern block stencils – create a pattern