

LEARNING PLAN

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| <p>Exploratory Activities Recognizing patterns: <u>I See Patterns</u> Rhythmic patterns: <u>Mr. Noisy's Book of Patterns</u> Song: "Patterns All Around" Creating patterns: Pocket Chart Quilt See attached...</p> | <p>CONCEPT Patterns, Relationships, and Algebraic Thinking (for Kindergarten)</p> |
| <p>Concept Development Activities</p> <p>Copy patterns: Overhead Pattern Blocks, Quick Quilts Center – Sound/Movement/Action Cards, Quilting Tiles</p> <p>Extend patterns: Border Pocket, Adding Machine Scroll Center – Unifix Cubes folders, Sticker folders</p> <p>Create patterns: People Patterns, Color Tiles Center – Connecting People, Linking Elephants, Buttons</p> <p>Circular patterns: Get in Position Center – Paper Plate Wreath</p> <p>Growing patterns: Line Up Center – Task Card Completion</p> <p>Tessellations: Pop Out Patterns Center – Pattern Block Poster, Tessellating Curlies</p> <p>Symmetry: "Simon Says" Body Parts Are Symmetrical Center – Symmetry with Paints: Butterfly</p> <p>Relationships: Daily Analogies Student Product – <u>A House Is a House for Me</u> booklet (See student product list below)</p> <p>Functions: What's My Rule? Center – Go Fish folder Game</p> <p>Make predictions: What's Missing? Center – Humpty Dumpty folder game</p> <p>Explain cause-and-effect: <u>If You Give a Mouse a Cookie</u> Center – Because folder Game</p> <p>Counting activities: 1-100 Pocket Chart Center – Magnetic Number Chart</p> <p style="text-align: right;">See attached...</p> | <p>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</p> <p>Resources <u>I See Patterns</u>, Linda Benton, Creative Teaching Press 1995 <u>Mr. Noisy's Book of Patterns</u> Rozanne Lanczak Williams, Creative Teaching Press, 1995 <u>A House Is a House for Me</u>, Mary Ann Hoberman, Puffin Books, 1982 <u>If You Give a Mouse a Cookie</u>, Laura Numeroff, <u>Patterns</u>, Samantha Berger, Scholastic, 1999 <u>Patterns</u>, Henry Pluckrose, Children's Press, 1995 <u>Patterns All Around Me</u>, Trisha Callella-Jones, Creative Teaching Press, 1998 <u>Too Many Thanks</u>, Maggie Myers, Charles A. Dana Center, 1999 <i>Project CLEAR</i> HISD Curriculum <i>Everyday Mathematics</i> The University of Chicago's School Mathematics Project AIMS Education Foundation <i>Impact II Center It</i> Math folders</p> |

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| <p>Basic Facts and Standard Algorithms Formalized</p> <p>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.</p> | <p>Originality and Creativity <i>Student Products</i></p> <p>Written Booklet – “A House Is a House for Me” - relationships List – Rhyming Words – sound patterns</p> |
| <p>Assessment</p> <p>Teacher’s Observations of Students’ Performance/Activities</p> <p>Oral Counting with song</p> <p>EXEMPLAR – “All in My Family”</p> | <p>Verbal Song – “I’ve Been Working on My Numbers” – oral counting patterns Paper Punches – Label and describe. – create patterns</p> |
| <p>Related TEKS/TAKS K.5.A, K.6.A, K.6.B, K.13.A, K.14.A, K.15.A 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.</p> | <p>Kinesthetic Pasta Patterns – create a pattern Block Buildings – symmetry</p> <p>Visual Flannelboard – flannel shapes – create a pattern Recording – pattern block stencils – create a pattern</p> |