

Patterns Abound



Explore patterns in many forms! Quilts, shapes, sounds, and more teach patrons about patterns through multiple activities.



INVENTORY OF TRUNK

Patterns Abound

IN

OUT

Activity Binder

- | | | |
|--------------------------|--------------------------|---------------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Librarian Instructions |
| <input type="checkbox"/> | <input type="checkbox"/> | Inventory List |
| <input type="checkbox"/> | <input type="checkbox"/> | Booklist/Introduction |
| <input type="checkbox"/> | <input type="checkbox"/> | Where Are Patterns? |
| <input type="checkbox"/> | <input type="checkbox"/> | I've Got Rhythm |
| <input type="checkbox"/> | <input type="checkbox"/> | In Sequence: Patterning with Beads |
| <input type="checkbox"/> | <input type="checkbox"/> | Storyboard Patterns |
| <input type="checkbox"/> | <input type="checkbox"/> | Templates for Storyboard Patterns |
| <input type="checkbox"/> | <input type="checkbox"/> | Patterns with Geometric Shapes |
| <input type="checkbox"/> | <input type="checkbox"/> | Quilt Block Patterns |
| <input type="checkbox"/> | <input type="checkbox"/> | Quilt Block Patterns picture examples |
| <input type="checkbox"/> | <input type="checkbox"/> | Consumable and Restocking List |
| <input type="checkbox"/> | <input type="checkbox"/> | Patterns Abound Supplement |
| <input type="checkbox"/> | <input type="checkbox"/> | Parent surveys |
| <input type="checkbox"/> | <input type="checkbox"/> | 6 laminated activity sheets |

Books

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | <i>A House is a House for Me</i> by Mary Ann Hoberman |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>A Pair of Socks</i> by Stuart J. Murphy |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Caps for Sale</i> by Esphyr Slobodkina |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Chicka Chicka Boom Boom</i> by Bill Martin Jr. |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Don't Forget the Bacon</i> by Pat Hutchins |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Goodnight Moon</i> by Margaret Wise Brown |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Growing Patterns: Fibonacci Numbers in Nature</i> by Sarah C. Campbell |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Jess Bear, What Will You Wear?</i> by Nancy White Carlstrom |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Manana, Iguana</i> by Ann Whitford Paul |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Mathcounts: Pattern</i> by Henry Arthur Pluckrose |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Swirl by Swirl: Spirals in Nature</i> by Joyce Sidman |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>The Game of Patterns</i> by Herve Tullet |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>The Jacket I Wear in the Snow</i> by Shirley Neitzel |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>Too Much Noise</i> by Ann McGovern |
| <input type="checkbox"/> | <input type="checkbox"/> | <i>We're Going on a Bear Hunt</i> by Michael Rosen |

Where Are Patterns

- | | | |
|--------------------------|--------------------------|---------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | 3 Magnifying Loupes |
|--------------------------|--------------------------|---------------------|

I've Got Rhythm

- | | | |
|--------------------------|--------------------------|----------------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | 9 laminated "Stomp" pieces |
| <input type="checkbox"/> | <input type="checkbox"/> | 11 laminated "Clap" pieces |
| <input type="checkbox"/> | <input type="checkbox"/> | 10 laminated "Snap" pieces |
| <input type="checkbox"/> | <input type="checkbox"/> | 4 felt strips 3" x 24" |
| <input type="checkbox"/> | <input type="checkbox"/> | 10 felt strips 3" x 12" |
| <input type="checkbox"/> | <input type="checkbox"/> | 10 I've Got Rhythm pattern cards |

In Sequence: Patterning with Beads

- | | | |
|--------------------------|--------------------------|---------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Laces |
| <input type="checkbox"/> | <input type="checkbox"/> | Wooden shaped beads |

Storyboard Patterns

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | 6 felt storyboards |
| <input type="checkbox"/> | <input type="checkbox"/> | 5 Caps for Sale storyboard sets |
| <input type="checkbox"/> | <input type="checkbox"/> | 3 The Jacket I Wear in the Snow storyboard sets |

Patterns with Geometric Shapes

- | | | |
|--------------------------|--------------------------|----------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | 6 Geoboards |
| <input type="checkbox"/> | <input type="checkbox"/> | 2 mini-tubs of rubberbands |

Quilt Block Patterns

- | | | |
|--------------------------|--------------------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | Pattern squares with Velcro on the back |
| <input type="checkbox"/> | <input type="checkbox"/> | Extra Velcro pieces |
| <input type="checkbox"/> | <input type="checkbox"/> | 19 quilt boards with Velcro |

To Be Provided by Borrowing Library*

- | | | |
|--------------------------|--------------------------|-----------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Craft or scrapbooking paper |
| <input type="checkbox"/> | <input type="checkbox"/> | Fabric |
| <input type="checkbox"/> | <input type="checkbox"/> | Felt |
| <input type="checkbox"/> | <input type="checkbox"/> | Leaves |
| <input type="checkbox"/> | <input type="checkbox"/> | Pinecones |
| <input type="checkbox"/> | <input type="checkbox"/> | Rubberbands |
| <input type="checkbox"/> | <input type="checkbox"/> | Shells |
| <input type="checkbox"/> | <input type="checkbox"/> | Wrapping paper |

* Some of these materials are provided in the kit but may be recommended to purchase as they will not be restocked by NMSL in the future.

Checked by _____ Date _____

Checked by _____ Date _____

Where are Patterns?

Beforehand

Check pattern objects to ensure they are in good shape and do not need replacement. Clean, repair, or replace as needed.

Materials Included

- Magnifying Loupes (3)
- Variety of objects that depict patterns. These could include, but are not limited to, patterns in fabric, wrapping paper, animal fabric/fur, laminated leaves, flowers seed heads, pinecones, shells, snail shells, photographs of patterns in nature, and simple music patterns. There should be a minimum of 30 different objects depicting patterns.

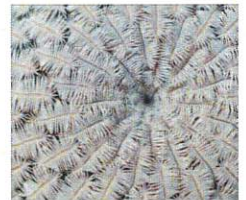
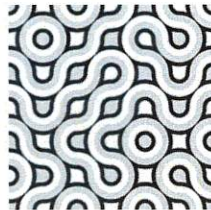
Materials to Gather

- Optional: Additional 'specimens' for participants to examine and sort
- (may be found objects such as rocks, small toys, etc.)



Set Up

Set magnifying loupes on the table. Spread out objects depicting patterns. Set up the prompt card.



Questions to Extend Discoveries

Invite participants to look at the different items on the table. Every item has some sort of pattern. Participants can be encouraged to identify the different patterns. For example, they could describe the patterns with words (e.g. circle, square, circle, circle, square, circle, square) or trace the pattern with their finger. Magnifying loupes can be used to look at the patterns up close. The patterns in items such as leaves can be particularly interesting when magnified.

Listen to participant discoveries and encourage more exploration with the following questions:

"What do you notice about these items?"

"What sort of patterns do you see?"

"Have you seen a pattern like this before? If so, where?"

"Try tracing the patterns with your finger."

"Try naming the pattern."

"How do the patterns vary from item to item?"

"Try sorting the items by which ones have similar patterns."

"Where else might you find patterns?" [e.g. the bottom of a shoe, animal tracks in the snow, on a plate, the wheel of a bicycle.]

I've Got Rhythm

Beforehand

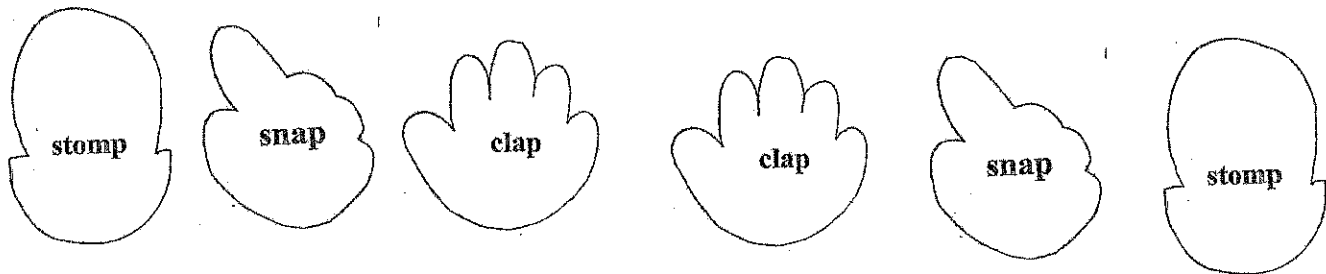
Check that felt strips, clap, stomp, snap pieces, and laminated pattern cards are in the kit. Use the patterns to make new ones if necessary.

Materials Included

- Felt Strips 3" x 24" (6)
- Felt Strips 3" x 12" (6)
- Clap, Stomp Snap pieces (15 of each)
- Pre-made laminated pattern cards (6)

Set Up

Set out on the table felt strips, clap, stomp, and snap pieces and laminated pattern cards. On one of the felt strips, place a few clap, stomp, and snap pieces as a model. Set up the prompt card.



Questions to Extend Discoveries

If your physical space allows, gather participants around you in a large circle. Demonstrate a simple clapping and/or stomping pattern. Have the children do it with you. After leading several pattern sequences, invite children to demonstrate their own patterns, with the entire group repeating the sequence.

Next, at the activity station, invite participants to try clapping, stomping, and/or snapping one of the pre-made patterns. After participants have tried several of the examples, model for them how to do their own pattern by placing the clap, stomp and snap pieces onto a strip of felt. Encourage them to try this, and use the following questions to help extend discoveries:

"Will you clap/stomp/snap your pattern for me?"

"Can I try your pattern?"

"What would your pattern sound like if we did.....(e.g. Clap, stomp, clap, stomp or clap, clap, stomp, clap, stomp, clap, clap)?"

"Try playing your pattern backwards. What did you notice?"

"Using the same pieces, can you create a different pattern?"

In Sequence: Patterning with Beads

Beforehand

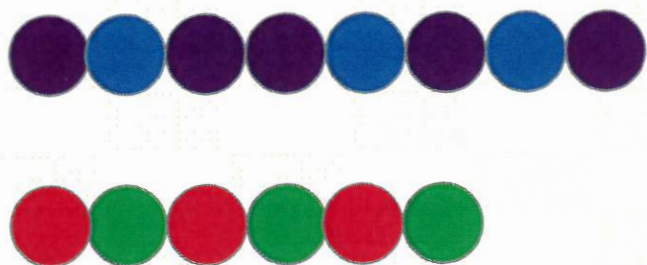
Check that materials are in the kit. Make sure that laces are not tangled or tied in knots.

Materials Included

- Beads (55 wooden picture beads)
- Laces (12)

Set Up

Set out beads and laces. Make a couple different examples of patterns (e.g. AABB, ABAB, ABBA, ABCABC). Set up the prompt card.



Questions to Extend Discoveries

Invite participants to create a pattern by stringing the beads in a pattern. Ask participants to tell you their pattern. Listen and look at the patterns being created. Use the questions below to extend discoveries. Try making a pattern yourself and share what the pattern is that you made.

"Create a pattern with colors."

"Create a pattern by using the different shape beads."

"Tell me what your pattern is? [e.g. butterfly, flower, butterfly,...]"

"Can you create a new pattern using the same beads?"

"How many types of patterns can you make using just 2 types of beads? ...3 types?"

Storyboard Patterns

Beforehand

Make sure that all story pieces are accounted for, for the stories. If missing, use the pattern provided and attach them to felt, to make new felt-backed pieces.

Materials Included

- Felt Storyboards (6)
- *Caps for Sale* by Esphyr Slobodkina
- 3 sets of felt story pieces for *Caps for Sale*
 - Monkey (1)
 - Hats (20)
 - Tree (1)
 - Peddler (1)
- *The Jacket I wear in the Snow* by Shirley Neitzel
- 3 sets of felt story pieces for *The Jacket I Wear in the Snow*
 - Person (2)
 - Jacket (1)
 - Zipper (1)
 - Scarf (1)
 - Hat (1)
 - Mittens (1)
 - Sweater (1)
 - Jeans (1)
 - Boots (1)
 - Belt (1)

Setup and background information

The classic story, *Caps for Sale* by Esphyr Slobodkina, demonstrates two kinds of patterning: word patterning with repeating word phrases, and color patterning with the caps on the peddler's head. Both kinds of patterning may be brought to the children's attention in the reading of this tale. Encourage the children to join in the repeating parts of the story.

The Jacket I Wear in the Snow by Shirley Neitzel demonstrates language and visual patterning through rhyme after rhyme of predictable text along with repetitive images. Sequencing also plays a major role in this tale.

Choose to either set out both books or just one book and corresponding felt board story pieces can be set out on the table. Also set out felt boards for storytelling. Place a couple pieces from one of the story sets on a felt board as a model. For example, place the tree and a monkey on the felt board. Set the bag with the caps and the peddler next to it. Set up the prompt card.

Questions to Extend Discoveries

Invite participants to choose one of the stories to read. After reading the story, encourage participants to recreate the patterns in the story using the felt board story pieces and the felt board.

Caps for Sale

- "How can you arrange the caps on the monkey's head?"
- "What kind of patterns can you make?"

The Jacket I wear in the Snow

- "Create a rhyme as you dress the person to go out into the snow."
- "Create a rhyme as you take off all the winter clothing."

Quilt Block Patterns

Beforehand

Check that there are enough laminated 3-inch paper quilt block squares to allow for variety in participant quilts. Quilt block squares should have velcro backings so that they can be stuck to the velcro piece on the quilt block back.

Materials Included

- Laminated Paper Quilt Backs (10)
- Laminated 3-inch paper squares of a variety of patterns (minimum of 100 different squares)
- Pictures of quilts (6)

Setup

Set four to six (4-6) quilt backs and a container of paper squares on the table. Place several squares on a quilt back to provide a model. Set out pictures of quilts. Set up the prompt card.

Questions to Extend Discoveries

Invite participants to create a quilt by sticking the squares with velcro to the "quilt" backing. Use the following questions to extend discoveries.

"Tell me about your pattern."

"What patterns do you see in your quilt blocks or squares of paper?"

"Try using the same pieces and create a different pattern."

"How many different patterns can you create without changing the pieces?"

"Look at the pictures of the quilts. What patterns do you see?"