TACTILE TREASURES

Math and Language Concepts for Young Children with Visual Impairments

GUIDEBOOK

Catalog No. 7-08842-00
TACTILE TREASURES
Math and Language Concepts for Young Children with Visual Impairments

GUIDEBOOK

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INTRODUCTION

Overview of Materials

_Tactile Treasures: Math and Language Concepts for Young Children_ with _Visual Impairments_ is an informal assessment and teaching tool for use with children having little or no vision at the preschool, kindergarten, or early elementary level. It includes thermoformed sheets with pictures made from real objects to illustrate concepts related to shape, size, amount, comparison of two or more objects, position, and pre-reading/page-orientation. This guidebook provides, for every concept, two suggested scripts or stories which can be read to the child as the tactile pages are presented. These materials are based on the idea that exposure to abstract concepts and pictorial presentation of real things is an essential starting point for understanding math and language.

Instructions for Use

- The order of presentation of the tactile pages should be determined by the teacher based upon the child's readiness for a given concept. The number of tactile pages introduced in one sitting should also be determined by the
teacher. Remember that this is a teaching tool and not a formal assessment of the child's understanding of math and language concepts.

- The tactile page should always be removed from the binder and placed on a flat, secure surface within comfortable reach of the child.
- Each concept is depicted twice using tactile illustrations. In most cases both depictions of the concept are presented on the same tactile page. The raised bar in the center of the tactile page divides it into top and bottom halves. The top half corresponds with Script 1 and the bottom half corresponds with Script 2. Occasionally the pictorial depictions of a concept are found on two separate tactile pages. The page number on the tactile sheet (in both print and braille) corresponds with the page number in the guidebook where the accompanying scripts can be found.
- Sometimes concepts which are synonymous in meaning (e.g., largest and biggest) are presented via the same scripts and accompanying tactile page(s). Interchanging the use of these concepts is recommended.
- In some cases, multiple concepts (e.g., first, second, third, and last) or concepts opposite in meaning (e.g., nearest and farthest) are presented on the same tactile page(s). All concepts on these pages need not be presented in one sitting.
Before reading the accompanying script allow time for the child to explore and describe the tactile page. Does he/she recognize what the object is before the script is read? Then proceed to read the script which names the displayed object. Let the child respond to the script's prompt (e.g., "Find the longest straw," etc.) by touching the object of his/her choice. Encourage the child to explain the reason for his/her selection.

Enhance the use of the tactile pages by incorporating some of the suggestions outlined in the next section, "Extended Activities."

Extended Activities

- Let the child explore a real object mentioned in the provided script (e.g., a real pretzel, a real button, etc.), pointing out the differences between the actual object and the thermoformed object.
- Recreate the tactile page layout using real objects.
- Encourage descriptive language. Before reading the script, ask the child to describe what he/she feels on the tactile page (e.g., bumpy, rough, smooth, curved, pointed, etc.) and discuss similarities and differences between the objects shown.
- Compose original scripts to accompany the tactile pages.
Substitute the proper name in the script with the child's name or a relative's name.

Introduce or reinforce other concepts besides the one presented in the script using the same tactile page. For example, the following questions might be posed using the tactile page (i.e., Page 1) that introduces the concept of "circle": What shape is to the left/right of the circle? What is the first/second/third/last shape in the row? What shape is between two other shapes? Where is the square? Where is the triangle? What shape is next to/beside the square? Are any of the shapes the same? Are there more or fewer shapes below the raised bar? Are the number of shapes above the raised bar equal to the number of shapes below the raised bar?, etc.

Challenge the child to create a story incorporating both objects shown above and below the raised bar on the tactile page, no matter how silly the resulting tale.

Rotate the page to the left or right, or even upside-down, to present the objects on the tactile page from different perspectives.

Outline the objects on the tactile page with a permanent black marker for the low vision child and provide adequate lighting.
If the child seems distracted by the tactile objects shown below the raised bar, when focus should be on the tactile objects above the raised bar (or vice-versa), cover the unused portion of the tactile page with a half sheet of paper. [Note: Repeatedly folding the tactile page in half to accomplish this same goal might permanently damage the page.]

After introducing the child to the real object and a thermoformed representation of the real object, provide a more abstract depiction of the object by creating your own simple raised-line drawings made with puff ink.

Special attention was given to making the tactile pages very versatile. Be creative and use a given tactile page to introduce or reinforce as many concepts as possible and not just the concept presented in the accompanying script.
<table>
<thead>
<tr>
<th>Shape</th>
<th>Oval</th>
<th>Straight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circle</td>
<td>Star</td>
<td>Curved</td>
</tr>
<tr>
<td>Square</td>
<td>Heart</td>
<td>Underline</td>
</tr>
<tr>
<td>Triangle</td>
<td>Diamond</td>
<td>X</td>
</tr>
<tr>
<td>Rectangle</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CATEGORY: SHAPE
CONCEPT: CIRCLE

SCRIPT 1
Many things in our world are shaped like a circle, such as coins, plates, cookies, and jar lids. Find a circle among these shapes.

SCRIPT 2
Brrr, it is cold outside! I'd better button my coat! My coat has circle-shaped buttons. Find the buttons shaped like circles.
CATEGORY: SHAPE
CONCEPT: SQUARE

SCRIPT 1
A square has four straight sides of equal length and four corners. Find a square among these shapes.

SCRIPT 2
The children wanted to have peanut butter on square crackers for a snack. Find the square crackers.
CATEGORY: SHAPE
CONCEPT: TRIANGLE

SCRIPT 1
A triangle has three sides and three corners. Find a triangle among these shapes.

SCRIPT 2
Tammy's mother cut the sandwiches into fancy shapes for the party. Some of the sandwiches were even shaped like triangles. Find the triangles among these shapes.
CATEGORY: SHAPE
CONCEPT: RECTANGLE

SCRIPT 1
A rectangle has four straight sides like a square, but they are not all the same length. A rectangle has two long sides and two short sides. Find a rectangle among these shapes.

SCRIPT 2
Carlos found a box full of game pieces in the toy closet. There were round checkers, square tiles, and rectangle-shaped dominos. Find the game pieces shaped like rectangles.
CATEGORY: SHAPE
CONCEPT: OVAL

SCRIPT 1
An oval has no corners and is kind of like a stretched circle. Find the oval among these shapes.

SCRIPT 2
Carrie's favorite candy is jellybeans, especially the cherry-flavored kind. Jellybeans are shaped like ovals. Find the oval-shaped candy.
CATEGORY:  SHAPE
CONCEPT:   STAR

SCRIPT 1
Vanessa liked playing dress-up in her fairy godmother costume with the star-shaped magic wand. Find the star among these shapes.

SCRIPT 2
Shelby collected starfish as she walked down the beach. The fish were actually shaped like 5-pointed stars! Find the stars among these shapes.
CATEGORY: SHAPE
CONCEPT: HEART

SCRIPT 1
The heart-shaped picture frame fell and broke while Wendy was dusting the mantel. Find the heart-shaped picture frame.

SCRIPT 2
Franz brought heart-shaped candies to school on Valentine's Day to share with his friends. Find the heart-shaped pieces of candy.
CATEGORY: SHAPE
CONCEPT: DIAMOND

SCRIPT 1
Maddie's mother has lost one of her diamond-shaped earrings. Here it is! Find the earring shaped like a diamond.

SCRIPT 2
Dustin couldn't wait to become a Cub Scout like his older brother and earn diamond-shaped badges. Find the diamond-shaped badges.
CATEGORY: SHAPE
CONCEPT: STRAIGHT

SCRIPT 1
A straight piece of spaghetti can quickly become a wiggly wet noodle once it is cooked. Find the straight piece of spaghetti.

SCRIPT 2
Marie and her mom were replacing some old nails on the barn. The new nails were straight, but the old nails were bent or curved when they pulled them out. Find the straight nails.
CATEGORY: SHAPE
CONCEPT: CURVED

SCRIPT 1
Bart and Morgan were using toy blocks to build a road for their cars. They wanted to add some curved pieces. Find a curved block.

SCRIPT 2
Most of the track pieces in Chris's electric train set were straight, but a few pieces were curved. Find the curved pieces of train track.
CATEGORY: SHAPE
CONCEPT: UNDERLINE

SCRIPT 1
Lucy put a line under her favorite shape. Was Lucy's favorite shape a square, triangle, or circle? Find the underlined shape and you'll know Lucy's favorite shape.

SCRIPT 2
Stephen colored in only the circles with a line under them. Find all the underlined circles.
CATEGOR Y: SHAPE
CONCEPT: X (the shape)

SCRIPT 1
The location of the treasure chest was marked by an X on the map. Find an X among these shapes.

SCRIPT 2
Oliver placed the X-shaped game pieces in a row on the Tic-Tac-Toe board. Find the X’s among these shapes.
<table>
<thead>
<tr>
<th>Smaller/est</th>
<th>Shorter/est</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larger/est</td>
<td>Taller/est</td>
</tr>
<tr>
<td>Bigger/est</td>
<td>Thinner/est</td>
</tr>
<tr>
<td>Medium-sized</td>
<td>Wider/est</td>
</tr>
<tr>
<td>Longer/est</td>
<td>Fatter/est</td>
</tr>
</tbody>
</table>
CATEGORY: SIZE
CONCEPT: SMALLER

SCRIPT 1
Christine can easily tell her parents' wedding rings apart from one another. Her mother's ring is smaller than her father's ring. Find the smaller ring.

SCRIPT 2
Matthew hung the smaller of two candy canes on the tree branch as a decoration. Find the smaller candy cane.
CATEGORY: SIZE
CONCEPT: SMALLEST

SCRIPT 1
Jessica glued the smallest button on her paper man. It made the perfect nose! Find the smallest button.

SCRIPT 2
The carpenter used the smallest screw to fasten the broken leg back onto the stool. Find the smallest screw.
CATEGORY: SIZE
CONCEPT: LARGER/BIGGER

SCRIPT 1
It took more than one bite to eat the larger/bigger pretzel. Find the larger/bigger pretzel.

SCRIPT 2
Amy liked to use the larger/bigger pair of scissors for her art projects. Find the larger/bigger pair of scissors.
CATEGORY: SIZE
CONCEPT: LARGEST/BIGGEST

SCRIPT 1
Michael dumped the coins out of his sister's change purse. The largest/biggest coin was a half dollar. Find the largest/biggest coin.

SCRIPT 2
Jenna was delighted that her Christmas present was wrapped inside the largest/biggest box. Find the largest/biggest box.
CATEGORY: SIZE
CONCEPT: MEDIUM-SIZED

SCRIPT 1
Troy placed three different coins next to each other on the table. He noticed that one of the coins wasn't the largest coin and it wasn't the smallest coin. It was the medium-sized coin. Find the medium-sized coin.

SCRIPT 2
The largest piece of chalk had never been used. The smallest piece of chalk had been used a lot. But the medium-sized piece of chalk had been used only a few times. Find the medium-sized piece of chalk.
CATEGORY: SIZE
CONCEPT: LONGER

SCRIPT 1
Juan had only two pencils in his desk drawer. The longer one he borrowed from his friend. Find the longer pencil.

SCRIPT 2
Of the two barrettes, the longer barrette held Susan's hair better. Find the longer barrette.
CATEGORY: SIZE
CONCEPT: LONGEST

SCRIPT 1
Alyssa hunted for the broken pieces of her pearl necklace. She found the *longest* strand of pearls under the bed. Find the *longest* strand of pearls.
SCRIPT 2
Antonio needed the *longest* drinking straw to sip the lemonade from the tall glass. Find the *longest* drinking straw.
CATEGORY: SIZE
CONCEPT: SHORTER

SCRIPT 1
Jake's toothbrush is shorter than his father's toothbrush. Find the shorter toothbrush.

SCRIPT 2
Simone has two keys on her key chain. The shorter key opens the front door of her house. Find the shorter key.
CATEGORY: SIZE
CONCEPT: SHORTEST

SCRIPT 1
Charlie used his favorite crayon so often that it is now the shortest crayon in the box. Find the shortest crayon.

SCRIPT 2
Samantha helped her uncle find the shortest nail in the toolbox. Find the shortest nail.
 CATEGORY: SIZE
 CONCEPT: TALLER

SCRIPT 1
Mindy's gingerbread man was taller than Luke's. Find the taller gingerbread man.

SCRIPT 2
Scott pretended the taller stack of blocks was an office building. Find the taller stack of blocks.
CATEGORY: SIZE
CONCEPT: TALLEST

SCRIPT 1
Stephanie put the tallest birthday candle in the center of the cake. Find the tallest birthday candle.

SCRIPT 2
The person who can make the tallest stack of pennies within a minute will be the winner. Find the tallest stack of pennies.
CATEGORY: SIZE
CONCEPT: THINNER

SCRIPT 1
One of the square picture frames was thinner than the other. Find the thinner picture frame.

SCRIPT 2
The thinner stick of chewing gum is peppermint flavored. Find the thinner stick of gum.
SCRIPT 1
It was impossible to drink the chocolate milkshake with the thinnest straw. Find the thinnest straw.

SCRIPT 2
Carl wanted to use the thinnest type of noodle in his casserole dish. Find the thinnest noodle.
CATEGORY: SIZE
CONCEPT: WIDER

SCRIPT 1
The tongue-depressor that the doctor used to examine Sean's throat was wider than a popsicle stick. Find the wider stick.

SCRIPT 2
The strap on Kate's backpack is wider than the strap on her friend's backpack. Find the wider strap.
CATEGORY: SIZE
CONCEPT: WIDEST

SCRIPT 1
Marty wanted the toy train with the *widest* track for his birthday. Find the *widest* train track.

SCRIPT 2
Francine liked the watch with the *widest* wristband. Find the watch with the *widest* wristband.
CATEGORY: SIZE
CONCEPT: FATTER

SCRIPT 1
Brooke's gingerbread man is fatter than Todd's. Find the fatter gingerbread man.

SCRIPT 2
Both pretzel sticks were salted, but the fatter pretzel stick was tastier. Find the fatter pretzel stick.
CATEGORY: SIZE
CONCEPT: FATTEST

SCRIPT 1
Larry thought that if he used the fattest crayon he could finish coloring his picture faster. Find the fattest crayon.

SCRIPT 2
Claire taped the fattest candy cane to the top of the present. Find the fattest candy cane.
<table>
<thead>
<tr>
<th>Same</th>
<th>With</th>
</tr>
</thead>
<tbody>
<tr>
<td>Different</td>
<td>Without</td>
</tr>
<tr>
<td>Alike</td>
<td>Other</td>
</tr>
<tr>
<td>Match</td>
<td></td>
</tr>
</tbody>
</table>

BINDER II
CATEGORY: COMPARING
CONCEPT: SAME

SCRIPT 1
Kelsey and Kyle bent their pipe cleaners into the same shape. Find the shapes that are the same.

SCRIPT 2
Lindsey bought some nuts from the store. Most of the nuts she chose were the same. Find the nuts that are the same.
CATEGORY: COMPARING
CONCEPT: DIFFERENT

SCRIPT 1
One of the crayons in Aaron's crayon box was different from the other crayons. Find the crayon that is different from the other crayons.

SCRIPT 2
Valerie found some seashells on the beach, but her favorite was the one that was different from the others. Find the seashell that is different from the others.
CATEGOR Y: COMPARING
CONCEPT: ALIKE

SCRIPT 1
At the dentist's office the twins chose toothbrushes that were alike. Find the toothbrushes that are alike.

SCRIPT 2
Before Lydia went swimming she pulled her hair back with barrettes. The barrettes she wore were alike. Find the barrettes that are alike.
CATEGORY: COMPARING
CONCEPT: MATCH

SCRIPT 1
Josh thinks that both keys must open the same door because they *match*. Find the keys that *match*.

SCRIPT 2
Carmen found at least two earrings in her messy jewelry box that *match*. Find the earrings that *match*.
CATEGOR Y: COMPARING
CONCEPT: WITH

SCRIPT 1
Ben's mouth watered when he smelled the doughnut with chocolate sprinkles. Find the doughnut with chocolate sprinkles.

SCRIPT 2
Daddy found a screw with some nails on top of his workbench. Find a screw with some nails.
SCRIPT 1
Holly still had all the cups to her tea party set, but one of the cups was broken and *without* a handle. Find the cup *without* a handle.

SCRIPT 2
Nathan likes pretzels *without* salt. Find the pretzel *without* salt.
SCRIPT 1
Whoops! Anthony just dropped one of his gingerbread men on the floor and broke off an arm and a leg. That's okay...he can eat the other gingerbread man. Find the other gingerbread man.

SCRIPT 2
Kara had three cookie cutters she could use to make her cookies. She didn't want to use the heart-shaped cookie cutter and she didn't want to use the star-shaped cookie cutter. She wanted to use the other cookie cutter. Find the other cookie cutter.
# Amount

<table>
<thead>
<tr>
<th>Many</th>
<th>Some, Not Many</th>
<th>All</th>
<th>Half</th>
</tr>
</thead>
<tbody>
<tr>
<td>Most</td>
<td>As Many</td>
<td>None</td>
<td>Whole</td>
</tr>
<tr>
<td>Least</td>
<td>Several</td>
<td>Equal</td>
<td>Pair</td>
</tr>
<tr>
<td>More</td>
<td>Few/Fewer</td>
<td>Unequal</td>
<td></td>
</tr>
<tr>
<td>Less</td>
<td>Every</td>
<td>Almost</td>
<td></td>
</tr>
</tbody>
</table>

**Binder II**
CATEGORY: AMOUNT
CONCEPT: MANY

SCRIPT 1
Gayle made a wreath by gluing uncooked macaroni onto a circular piece of cardboard. It took many pieces of macaroni to finish her wreath. Find the group that has many pieces of macaroni.

SCRIPT 2
Many nails are needed to fix the porch floor. Find the group that has many nails.
CATEGORY: AMOUNT
CONCEPT: MOST

SCRIPT 1
At the fall festival, Coco won a prize during the pumpkin carving contest for gathering the *most* pumpkin seeds. Find the group that has the *most* pumpkin seeds.

SCRIPT 2
Shawna was such a slow eater! She had the *most* Cheerios® left in her breakfast bowl. Find the group that has the *most* Cheerios.
CATEGORY: AMOUNT
CONCEPT: LEAST

SCRIPT 1
Although Alexander found the least number of seashells on his family's trip to the beach, his seashells were by far the prettiest and most interesting to feel. Find the group that has the least number of seashells.

SCRIPT 2
Briana is the youngest in her family and has the least number of candles on her cake. Find the group with the least number of candles.
CATEGORY: AMOUNT
CONCEPT: MORE

SCRIPT 1
One doughnut had *more* sprinkles than the other. Find the doughnut with *more* sprinkles than the other.

SCRIPT 2
There were *more* rings in one box than there were in the other boxes. Find the box that has *more* rings than the other boxes.
CATEGORİY: AMOUNT
CONCEPT: LESS/FEWER

SCRIPT 1
One of the hair combs had less/fewer teeth than the others.
Find the comb with less/fewer teeth than the others.

SCRIPT 2
There were less/fewer beads on Jan's bracelet than there were on Lynn's. Find the bracelet with less/fewer beads than the other.
CATEGORY: AMOUNT
CONCEPT: SOME, NOT MANY

SCRIPT 1
Trent was disappointed that by the end of the year he had some, not many dimes. Find the group that has some, not many dimes.

SCRIPT 2
Cassie wore some, not many rings on her fingers. Find the group that has some, not many rings.
CATEGORIES: AMOUNT
CONCEPT: AS MANY

SCRIPT 1
There were *as many* Cheerios in one box as there were in another. Find a box that has *as many* Cheerios in it as another.

SCRIPT 2
There were *as many* sprinkles on one doughnut as there were on another. Find a doughnut with *as many* sprinkles on it as another doughnut.
SCRIPT 1
When trick-or-treaters came to her door on Halloween night, Johanna gave each goblin several pieces of bubble gum. Find a group that has several pieces of bubble gum.

SCRIPT 2
There were several pushpins on Ted's bulletin board. Find a group that has several pushpins.
CATEGORY: AMOUNT
CONCEPT: FEW

SCRIPT 1
Elizabeth needed only a few buttons to sew onto a sock to make the eyes and nose of her hand puppet. Find the group with a few buttons.

SCRIPT 2
Wesley's grandmother told him he could eat just a few M&Ms® before dinner. Find the group with a few M&Ms.
CATEGORY: AMOUNT
CONCEPT: EVERY

SCRIPT 1
Ashley and Jim helped each other pick up the spilled game pieces off the floor. Ashley picked up every game piece shaped like a circle. Find the group in which every game piece is shaped like a circle.

SCRIPT 2
Every cup in the cupboard had a handle. Find every cup with a handle.
SCRIPT 1
Casey removed *all* the bent nails from the toolbox. Find the group in which *all* the nails are bent.

SCRIPT 2
Rob hadn't taken a single bite of his gingerbread man. *All* of it was still on his plate. Find the gingerbread man that is *all* there.
SCRIPT 1
Oliver's baby sister yanked on his mother's necklace so hard that it broke, sending the pearls rolling and bouncing on the floor. *None* of the pearls were left on the necklace. Find the necklace that has *none* of its pearls.

SCRIPT 2
*None* of the buttons on Kelly's sweater were square. Find the group in which *none* of the buttons are square.
CATEGORY: AMOUNT
CONCEPT: EQUAL

SCRIPT 1
Two of the bracelets had an equal number of beads. Find two bracelets with an equal number of beads.

SCRIPT 2
Mike and Katie found an equal number of seashells on the beach. Find two groups in which there are an equal number of seashells.
CATEGORY: AMOUNT
CONCEPT: UNEQUAL

SCRIPT 1
The children separated the M&Ms into three groups, but the number of M&Ms in one group was unequal to the number of M&Ms in the other groups. Find the group with an unequal number of M&Ms.

SCRIPT 2
The number of bubble gum pieces was unequal to the number of lollipops. Find the group in which there is an unequal number of bubble gum pieces than there are lollipops.
SCRIPT 1
Lucy decided it was time to buy herself a new comb. The one she has is missing *almost* all of its teeth. Find the comb missing *almost* all of its teeth.

SCRIPT 2
It was taking Chad a long time to eat his candy cane, but it was now *almost* gone. Find the candy cane that is *almost* gone.
CATEGORY: AMOUNT
CONCEPT: HALF

SCRIPT 1
Peter unselfishly broke his oatmeal cookie in half and shared it with his best friend. Find half of a cookie.

SCRIPT 2
Shannon zipped her jacket half way up on the breezy day. Find the zipper that is zipped half way up.
CATEGORY: AMOUNT
CONCEPT: WHOLE

SCRIPT 1
To Melissa's delight the *whole* doughnut was covered with chocolate sprinkles. Find the *whole* doughnut covered with chocolate sprinkles.

SCRIPT 2
Max wanted to eat a *whole* gingerbread man . . . not just a part of one. Find a *whole* gingerbread man.
**CATEGORY:** AMOUNT  
**CONCEPT:** PAIR

**SCRIPT 1**
After searching through the box of old toys, Stacy finally found a doll with a *pair* of legs. Most of the old dolls were missing a leg and sometimes an arm or two. Find the doll with a *pair* of legs.

**SCRIPT 2**
Neil carved a *pair* of triangles in the pumpkin to make the jack-o-lantern's eyes. Find a *pair* of triangles.
<table>
<thead>
<tr>
<th>Inside</th>
<th>Through</th>
<th>Bottom</th>
<th>First</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outside</td>
<td>Away From</td>
<td>Upside-Down</td>
<td>Second</td>
</tr>
<tr>
<td>Around</td>
<td>Next To</td>
<td>Right</td>
<td>Third</td>
</tr>
<tr>
<td>Over</td>
<td>Beside</td>
<td>Left</td>
<td>Last</td>
</tr>
<tr>
<td>Above</td>
<td>Nearest</td>
<td>Center</td>
<td>Beginning</td>
</tr>
<tr>
<td>Under</td>
<td>Farthest</td>
<td>Middle</td>
<td>End</td>
</tr>
<tr>
<td>Below</td>
<td>Separated</td>
<td>Row</td>
<td></td>
</tr>
<tr>
<td>Between</td>
<td>Top</td>
<td>Line</td>
<td></td>
</tr>
</tbody>
</table>
CATEGORY: POSITION
CONCEPT: INSIDE

SCRIPT 1
The ball bounced a few times and landed inside the box. Find a ball inside a box.

SCRIPT 2
There were many circles on the page, but only one had an X inside of it. Find a circle with an X inside of it.
CategorY: Position
Concept: Outside

Script 1
Adam tried many times to roll the marble inside the circle on the floor, but it kept landing outside of the circle. Find a marble outside of a circle.

Script 2
The children were asked to glue macaroni inside of the triangle for their art project, but some forgot and glued their macaroni outside of the triangle. Find the macaroni outside of the triangle.
SCRIPT 1
Nina made the door of her gingerbread house with a rectangle-shaped cookie. She also put M&Ms around the cookie. Find M&Ms around a rectangle-shaped cookie.

SCRIPT 2
The jeweler carefully placed the bracelet around the ring in the gift box before wrapping it. Find a bracelet that is around a ring.
CATEGORY: POSITION
CONCEPT: OVER/ABOVE

SCRIPT 1
C.J. held a sugar cube *over/above* his father's hot coffee and counted to three before he let it plop into the cup. Find a sugar cube *over/above* a cup.

SCRIPT 2
Sheila made a house with her cardboard shapes. She placed a triangle *over/above* a square to make the roof. Find a triangle *over/above* a square.
CATEGORY: POSITION
CONCEPT: UNDER/BELOW

SCRIPT 1
Lucia thought the triangle under/below the circle looked like an ice cream cone with one scoop of ice cream. Find a triangle under/below a circle.

SCRIPT 2
Ben hung the heart-shaped picture frame under/below the square picture frame on the wall. Find a heart-shaped picture frame under/below a square picture frame.
SCRIPT 1
Rusty made a make-believe town with his blocks and toy train track. He put the train track *between* his blocks. Find a train track *between* blocks.

SCRIPT 2
Fran's necklace had a large bead *between* small beads. Find a large bead *between* small beads.
CATEGORY: POSITION
CONCEPT: THROUGH

SCRIPT 1
Keisha made her own necklace by putting a string through some beads. Find a string going through beads.

SCRIPT 2
Henry was acting silly at the breakfast table and put his juice straw through his Cheerios. Find a straw going through Cheerios.
SCRIPT 1
Vinny put the seashell he wanted to give his friend away from the seashells he wanted to keep for himself. Find the seashell away from the other seashells.
SCRIPT 2
Dana shook all the coins out of her piggy bank onto the floor to count them, but one of the coins rolled away from the other coins. Find a coin away from the other coins.
SCRIPT 1
Phillip had only a coin and key in his shirt pocket. He pulled the coin and key out of his pocket and laid them next to/beside each other on the counter. Find a coin next to/beside a key.

SCRIPT 2
Kaitlyn placed the jigsaw puzzle pieces next to/beside each other to find out if they fit together. Find jigsaw puzzle pieces next to/beside each other.
SCRIPT 1
When Monica's jewelry box fell on the floor, some of her rings fell out. Find the ring that is nearest the box. Find the ring farthest from the box.
CATEGORY: POSITION
CONCEPT: NEAREST/FARthest

SCRIPT 2
The winner of the game tossed the coin nearest to the string. Find the coin that is nearest to the string. Find the coin farthest from the string.
CATEGORY: POSITION
CONCEPT: SEPARATED

SCRIPT 1
The square is separated from the circle by a dotted line. Find a square separated from a circle by a dotted line.

SCRIPT 2
A dotted line separated one group of circles from another group of circles. Find the groups of circles separated by a dotted line.
CATEGORY: POSITION
CONCEPT: TOP

SCRIPT 1
Jamaal tried to balance the marble on top of the block. Find a marble on top of a block.

SCRIPT 2
Francine signed her name on the top line. Find the top line.
CATEGORY: POSITION
CONCEPT: BOTTOM

SCRIPT 1
Min was worried that the bottom of the cup might scratch the tabletop. Find the bottom of the cup.

SCRIPT 2
Louisa pushed the bottom of the candle into the birthday cake. Find the bottom of the candle.
CATEGORY: POSITION
CONCEPT: UPSIDE-DOWN

SCRIPT 1
Bryan placed the clean teacups *upside-down* on the shelf.
Find the cup that is *upside-down*.

SCRIPT 2
Chloe found out that it is impossible to hang an *upside-down* candy cane on a Christmas tree branch. Find an *upside-down* candy cane.
CATEGORIES: POSITION
CONCEPT: RIGHT

SCRIPT 1
Trina always turns her teacup so that the handle is on the right before she picks it up. Find the teacup with the handle on the right.

SCRIPT 2
On the snack counter are a doughnut, a pretzel, and a gingerbread man. Hannah wanted the snack to the right of the pretzel. What snack is to the right of the pretzel?
CATEGORY: POSITION
CONCEPT: LEFT

SCRIPT 1
Yvonne laid the triangle to the *left* of the circle. Find a triangle to the *left* of a circle.

SCRIPT 2
On the table were a screw, a coin, and a key. Find what is lying to the *left* of the coin.
CATEGORY: POSITION
CONCEPT: CENTER/MIDDLE

SCRIPT 1
The middle/center button on Bradley's sweater was loose. Find the middle/center button.

SCRIPT 2
There was a knot in the middle/center of the rope. Find the rope with a knot in the middle/center.
SCRIPT 1
Abby removed all the seeds from her slice of watermelon and placed them in a row/line on the picnic table. Find a row/line of watermelon seeds.

SCRIPT 2
The seamstress sewed a row/line of tiny satin buttons down the back of the wedding gown. Find a row/line of buttons.
SCRIPT 1
Luke laid some seashells in a row on the table. Find the first seashell in the row. Find the second seashell in the row. Find the last seashell in the row. Find the third seashell in the row.

SCRIPT 2
Kristi put four cookie cutters on the counter in the order she wanted to use them. Find the first cookie cutter Kristi wanted to use. Find the last cookie cutter Kristi wanted to use. Find the third cookie cutter Kristi wanted to use. Find the second cookie cutter Kristi wanted to use.
CATEGOR Y: POSITION
CONCEPT: BEGINNING/END

SCRIPT 1
Dean placed his cardboard shapes in a row. Find the shape at the beginning of the row. Find the shape at the end of the row.

SCRIPT 2
Dominque was thrilled that there was a row of star-shaped stickers next to her name on the classroom chart. Find the star at the beginning of the row. Find the star at the end of the row.
PRE-READING

Top
Bottom
Side
Left
Right
Center
Middle
Corner

BINDER III
SCRIPT 1
In art class Bridget made a collage of some of her favorite foods: On a piece of paper she glued a Cheerio in each corner. Find a Cheerio in each corner of the page. Along the top and bottom of the paper she glued M&Ms. Find the M&Ms along the top of page. Find the M&Ms along the bottom of the page. Along the right and left sides of the paper she glued macaroni. Find the macaroni along the left side of the page. Find the macaroni along the right side of the page. She finished her collage by gluing a pretzel in the center/middle of the page. Find the pretzel in the center/middle of the page.
SCRIPT 2
Jeremy made his own gift wrapping paper by decorating it with different shapes: He put a circle in each corner of the paper. Find a circle in each corner of the page. He then added some triangles along the top and bottom of the page. Find the triangles along the top of the page. Find the triangles along the bottom of the page. Next he decorated the right and left sides of the paper with squares. Find the squares along the left side of the paper. Find the squares along the right side of the paper. He finished by putting a diamond in the middle/center of the page. Find the diamond in the middle/center of the page.
Use Pages 78 and 79

CATEGORY: PRE-READING
CONCEPT: FRONT/BACK

Using either of the "Pre-reading" tactile pages, introduce or review the concepts of front and back of a page with the child by pointing out that the front of the page is the bumpier side with the raised pictures or the side of the page they are feeling first. Ask the child to turn the page over and explain that this is the back of the page.

Note: Any of the other tactile pages can also be used to introduce the concepts of front and back, especially those with a separation bar in the center of the page. The bar will always feel raised on the front of the tactile page and the bar will always be recessed like a groove on the back of the tactile page.