

<p>Unit 1</p>  <p>Week 5</p>	<p>Small Groups: Leaf Pictures</p> <p>Low Support</p>	<p>Math</p> <p>SG2</p>	<p>Standards:</p> <p>MP: Participates in whole group and small group math-focused activities.</p> <p>MD: Discovers connections between formal geometric shapes and the surrounding environment (Unit 2)</p>
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<p>Guiding Math Ideas:</p> <ul style="list-style-type: none"> ● Discovery and exploration of math materials ● Matching and Grouping <p>Math Concepts From Unit 1 and 2 Learning Progressions:</p> <ul style="list-style-type: none"> ● Describing sorting and classifying collections. ● Objects can represent other Objects (<i>Leaf Man</i>)
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<p>Materials:</p> <ul style="list-style-type: none"> ● <i>Mouse’s First Fall</i> by Lauren Thompson and <i>Leaf Man</i> by Lois Ehlert- Any other fall books that feature leaves or fall colors in your collection ● Leaf Shapes in Fall Colors ● Glue sticks ● Recycled cardboard in various sizes (or paper) ● Markers 	<p>Math Vocabulary:</p> <ul style="list-style-type: none"> ● Fall or Autumn: A Season of the year when the leaves change and the air is cool.
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Preparation:

This activity bridges Units 1 and 2, reinforcing the concepts of sorting, grouping and shapes from Unit 1 and previewing the use of collections in Unit 2. It also integrates math into seasonal-themed activities. Gather materials in Small Group Area. Using sturdy brown cardboard provides a good background for the leaf pictures, as well as contrasts with the bright leaves. Organize leaves by color or size or shape, using the math organizers or bowls and plates in Math Center.

Procedure:

Place the books on table in Small Group along with the art materials. Look through the books with children, commenting on the colorful pictures and wondering about the stories. *Mouse’s First Fall* describes leaves and names colors and attributes such as pointy, round, skinny, smooth. *Leaf Man* combines leaves in creative ways. There are also movement and measuring words. Invite children to use materials and create leaf pictures. Use math descriptors to reflect children’s work. Save pictures for Unit 2, Week 1, when you read *Mouse’s First Fall* and go on a nature walk.

Strategies that Facilitate Math Thinking:

- **Math Provocations as a Strategy:** These semi-open-ended activities are Math Provocations, because the choice and arrangements of materials lead participants into using materials in ways that reinforce math concepts without direct instruction. Observe if and how children group materials, comment on how they place items on the page, how they choose colors, etc. We often introduce a book first, and then do follow up activities- but it is also stimulates creativity and math thinking by doing the opposite: Introducing an activity such as this one inspired by illustrations, prior to reading the book.
- **The Art/Math Connection:** Art and Math combine in concepts such as perspective, use of space, gradations of color, and form among many other ideas. Provide opportunities for children to see art in math and math in art.

Documentation:

Save the pictures and use them in Unit 2. Children can add to their pictures after their nature walk.

Provocation:

See materials as provocations above.