

# Nature's Shapes & Sizes

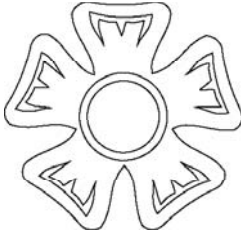
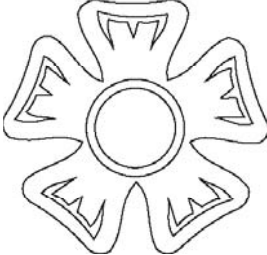

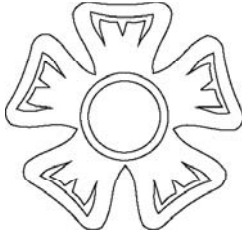







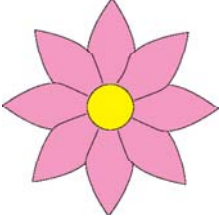




## Pre-Visit Activities

The activities included in your pre-visit packet have been designed to help you and your students prepare for your upcoming program at St. Joseph County Parks. The activities included in this packet have been designed to help your students recognize the many shapes and sizes that occur in nature. By completing the enclosed activities prior to their visit, students will have a better understanding of the activities that they will participate in at the park. If you do not have time to do the activities prior to your park visit, they will also work as a review to measure what the students learned during the program.



## Which Picture is the Same?

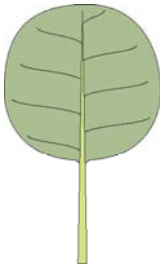
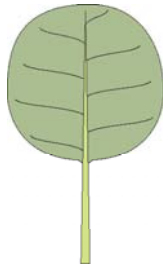
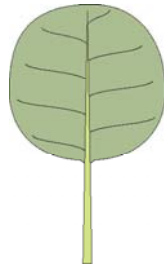
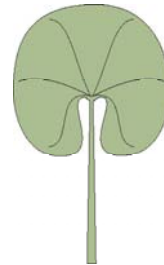

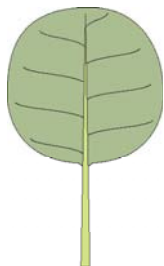



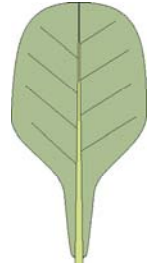
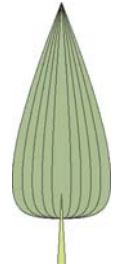













In each row of pictures, circle the picture that is the same size as the one in the first square.

 <b>1.</b>	 a.	 b.	 c.
 <b>2.</b>	 a.	 b.	 c.
 <b>3.</b>	 a.	 b.	 c.
 <b>4.</b>	 a.	 b.	 c.

# Leaf Shapes



In each row of pictures, circle the picture that is a different shape from the one in the first square.

 <b>1.</b>	 a.	 b.	 c.
 <b>2.</b>	 a.	 b.	 c.
 <b>3.</b>	 a.	 b.	 c.
 <b>4.</b>	 a.	 b.	 c.
 <b>5.</b>	 a.	 b.	 c.
 <b>6.</b>	 a.	 b.	 c.

# Leaf Pictures

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## Instructions

1. Have the students collect as many different kinds of fall leaves as they can. Students can bring leaves in from home or collect them at school.
2. Let the students sort them into piles of different shapes and sizes.
3. Have the students arrange the leaves into a pattern or a picture and glue them onto the construction paper using glue sticks.

### Materials Needed:

- large piece of construction paper for each student
- glue sticks
- fall leaves

Activity adapted from: *Nature for Fun Projects* by Sally Hewitt



# Cottonball Toss Game

## Instructions

1. Provide each student with a copy of the "cone" page on white cardstock.
2. Help students identify the shape on the "cone" page and then have them outline and decorate the circle with markers.
3. Have students cut out the circle and then cut on the line up to the dot in the center of the circle.
4. Help students overlap and glue the edges of the slit to form a cone.
5. Let students toss a cotton ball into the air and catch it in the cone.

### Materials Needed:

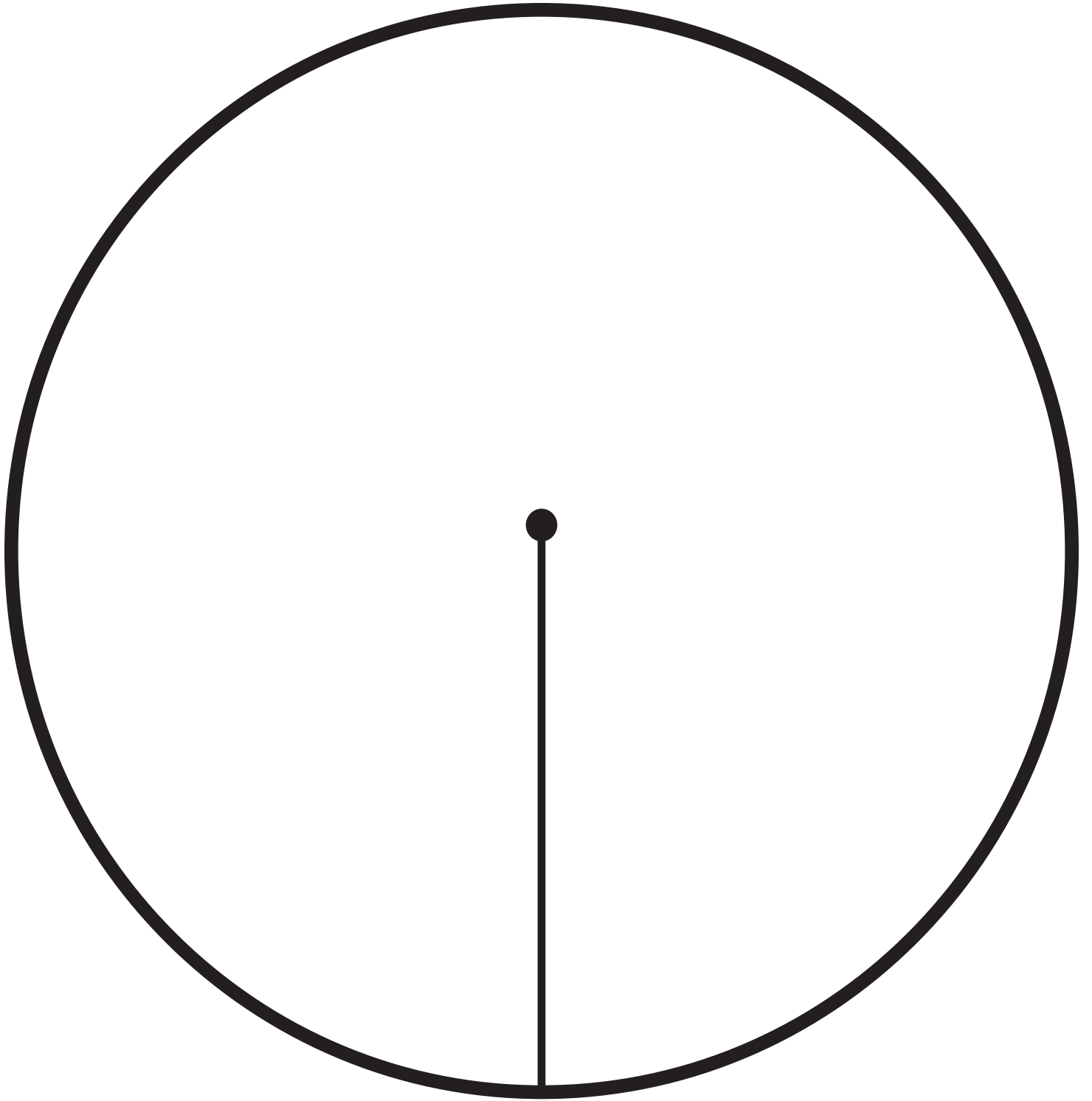
- Copies of "cone" page for each student
- Scissors
- Cotton balls for each student
- Markers
- Glue sticks

## Challenges

1. Have students play a toss game with partners tossing the cotton ball back and forth. Give them problem solving situations such as "*Can you toss the cotton ball while taking a step backward?*" "*Can you toss and catch the cotton ball while standing on one foot?*"
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2. Have the students make up other tossing games with partners or for small groups to play. Give partners and/or groups a chance to demonstrate their games and let other groups play.

Activity adapted from: *A Year of Shapes* by Dr. Margery Kranyik





# "Cone" Page



# Answer Sheet for Nature's Shapes & Sizes Pre-Visit Packet

Which Picture is the Same?

1. c
2. a
3. b
4. c

Leaf Shapes

1. c
2. a
3. b
4. b
5. a
6. b

