



Cincinnati
Museum
Center

Teacher's Pre- and Post-Program Visit Guide

Program	Block by Block
Grade Level	Pre K - K
Time	30 minutes
Location	Duke Energy Children's Museum

Program Objectives

- Students will learn about basic building techniques and how to identify basic geometric shapes.
- Students will work together in small groups to co-operatively build an assigned structure.
- Students will sort and classify building blocks by color, size and shape.

Program Description

Learn to build. Build to learn! Use a variety of materials to construct, sort and classify while working cooperatively.

Major Vocabulary and Concepts

sorting	graphing	cooperation
teamwork	shapes	colors
patterns	size	compare/contrast
structure		

Suggested things to do in your classroom before the program

- Discuss basic shapes and what qualities make the shape what it is.
- Practice sorting classroom items and focus the students' attention toward the similarities and differences of an object.
- Have children draw pictures for different types of buildings and see if they can build something similar to their drawing.
- Create team-building sessions for your class. Have the children complete goals that would otherwise be impossible without teamwork and cooperation.

Suggested things to do after the program

- Students will be encouraged to continue to explore other building techniques in the Kids at Work exhibit area and at school or home.
- Place common objects and shapes into patterns and have the children work on continuing the pattern that you started.
- Make a classroom graph of pets. See how many children have cats, dogs, etc. Record results with the students.

Curriculum and Standards Addressed

Ohio - Physical Sciences, Scientific Inquiry, Scientific Ways of Knowing

Kentucky - Physical Sciences, Scientific Inquiry, Applications & Connections

Indiana - The Physical Setting, The Mathematical World, Scientific Thinking, Common Themes

Related Exhibits and Features

- *Kids at Work* exhibit in the Duke Energy Children's Museum.

Resources

- www.kidpsych.org (Interactive lessons and games for kids.)
- Brown Rabbit's Shape Book by Alan Baker
- Circle Dogs by Kevin Henkes
- Red Bear's Fun with Shapes by Bodel Rikys
- So Many Circles, So Many Squares by Tana Hoban
- The Secret Birthday Message by Eric Carle
- When a Line Bends ... A Shape Begins by James Kaczman