

Learning from Miami

Title: Geometric Shapes in Miami Architecture

Grades K-5 (can be adapted to any grade level)

Subject Areas: Social Studies, Language Arts, Mathematics, Art

Materials:

Copies of Geometric Shapes Worksheet

<http://www.fun-stuff-to-do.com/images/GEOMETRIC-SHAPES-BASIC.jpg>

Pictures of Art Deco (South Beach), Moorish Revival (Opa-Locka), and Mediterranean (Coral Gables), paper, scissors and glue, pattern blocks

Steps for implementation:

- 1) The students will discuss various geometric shapes using the worksheet.
- 2) View video on geometric shapes

<http://www.youtube.com/watch?v=OUMUaxiPUlo>

- 3) With the whole class discuss three-dimensional shapes using items found in a classroom.
- 4) View the following video about three-dimensional shapes.

<http://www.youtube.com/watch?v=K9L9I86N-xM>

- 5) The students will watch, read about and discuss the following segments from the “Learning from Miami” webpage:

<http://learningfrommiami.org/?p=425>

http://learningfrommiami.org/?page_id=2

<http://learningfrommiami.org/?p=447>

The students will identify geometric shapes used in the designs of the buildings featured in these video segments by orally discussing their observations.

- 6) The students will discuss how geometric shapes can be identified on buildings in our community.
- 7) The students will view pictures of different architecture styles in Miami (these are attached or on-line) and continue the discussion related to geometric shapes in buildings.
- 7) The students will work in groups to find as many geometric shapes they can find on the pictures of the buildings presented.
- 8) The students will share their findings with the group.
- 9) As a final activity the students will pretend they are architects and make their own design of a building using pattern blocks on an 8 1/2x 11 paper/poster.
- 10) Display students’ final products around the rooms and label are; “ Architects at Work”.

Enrichment Activities: Organize and architectural fair outside the classroom and invite other classes or grade levels in order for students to present their work.

ELL strategies: hands-on activities, visuals, videos, translation

Remediation: Students can use a peer's model as a guide or a peer tutor to complete the project.

Resources:

Learning from Miami Website links:

<http://learningfrommiami.org/?p=425>

http://learningfrommiami.org/?page_id=2

<http://learningfrommiami.org/?p=447>

www.learningfrommiami.org

Gables Architectural Structure (The Biltmore Hotel):



Opa-locka



South Beach Art Deco Hotel

