

# 3D Discovery

Second Grade Integrated Visit

Behavioral Objective:

Students visiting the 3D Discovery exhibit at the Lubeznik Center for the Arts will be given a tour of the show and will correctly identify shapes in various sculptures.

Learning Objectives:

Students will:

- 1) Learn proper behavior while visiting an art museum
- 2) Correlate simple geometric shapes and identify shapes that make up sculptures
- 3) Learn how sculpture and math are related.
- 4) Use simple geometric and organic shapes to create a robot

Teacher Background:

Sculpture speaks powerfully to the culture in a language that we all can understand. Utilizing shapes and forms, the sculptors show that things are made of different arrangements of the basic shapes. Students will observe how this occurs and will be able to make connections between art and everyday life.

Vocabulary:

Square	Two dimensional	Sculpture
Circle	Three dimensional	Sculptor
Triangle	Shape	Texture
Rectangle	Form	Tactile
Organic	Space	Visual

## Indiana State Standards

### Language Arts:

#### Standard 7: Listening and Speaking: Skills, Strategies and Applications

- 2.7.1 Determine the purpose or purposes of listening
- 2.7.3 Paraphrase (restate in own words) information that has been shared orally by others.

### Math:

#### Standard 4: Geometry

- 2.4.2 Describe, classify, and sort plane and solid geometric shapes (triangle, square, rectangle, cube, rectangular prism) according to the number and shape of faces (number of sides) and the number of sides, edges and/or vertices.
- 2.4.5 Recognize geometric shapes and structures in the environment and specify their locations.

### Science:

#### Standard 3: The Physical Settings

- 2.3.5 Investigate that things can be done to materials-such as freezing, mixing, cutting, heating or wetting –to change some of their properties. Observe that not all material respond in the same way.

#### Standard 4: The Living Environment

- 2.4.5 Recognize and explain that materials in nature, such as grass, twigs, sticks, and leaves can be recycled and used again, sometimes in different forms.

#### Standard 6: Common Themes

- 2.6.1 Investigate that most objects are made of parts
- 2.6.2 Observe and explain that models may not be the same size, may be missing some details, or may not be able to do all of the some things as the real things.

### Social Studies:

#### Standard 5: Individuals, Society and Culture

- 2.5.4 Explain how changes in technology have influenced various traditions.
- 2.5.5 Identify people of different ages, cultural background, traditions, and careers and explain how they contribute to the community.

### Visual Arts

#### Standard 3: Responding to Art: Criticism

- 2.3.3 Use appropriate art vocabulary

#### Standard 5: Responding to Art Aesthetics

- 2.5.2 Identify and discuss major questions about the nature of art: such as “is all art beautiful?”  
Can art be machine-made?

#### Standard 8:

- 2.8.1 Identify and apply elements (line, shape, form, and color) and the principles.
- 2.8.2 Discriminate between types of shape (geometric and organic), colors, lines, textures (tactile and visual) and space in their work and the work of others.

Standard 9: Production

2.9.2 Identify and use media, techniques and processes to effectively communicate ideas, experiences, and stories including .... (but not limited to ..... )

Sculpture

Media: paper, papier-mâché, clay, cardboard, wood, paper, foil, found objects, beads wire, foam..

Process: carving, additive, subtractive, modeling, constructing

Mixed Media:

Media: tissue, photos, found objects, foil, paint, paper

Processes: collage, bas-relief

Standard 11: Careers and Community

2.11.1 Identify the roles of artist, docents, and guards at museums and galleries.

Standard 12: Careers and Community

2.12.2 Visit local museums, exhibits and experience visiting artists in school.

Standard 13: Integrated Studies

2.13.1 Identify similarities and connections between concepts and subject matter of visual art and other disciplines.

2.13.2 Demonstrate the ability to create a work of art utilizing concepts, subject matter, or the sign systems of another discipline.

Additional Activities:

Have students collect various interesting 3 dimensional items from home ( buttons, bottle caps, paper clips, paper towel rolls etc .... ) and create a sculpture from these items.

Using craft wire, styrofoam packing blocks, paper foil, stickers: glue or tape and scissors.....  
Cut the wire to any desired length. Stick the wire into the top of the foam block and bend the wire into wiggly shapes. Add more wire shapes to the block. Tape or glue bits of paper to the wires like flags or flower blossoms, stickers work well also. Keep adding more wire and paper.

Name \_\_\_\_\_

Draw a robot using geometric shapes, organic shapes. Use line to add interest and detail. Even robots have fingers, hats, jewelry, buttons and many other things.  
Color the robot when you are finished.

