

**VOCABULARY NOTEBOOK ENTRY: shape, form, geometric shapes**

**DO NOW: Page 35, Picture 2-3**

2

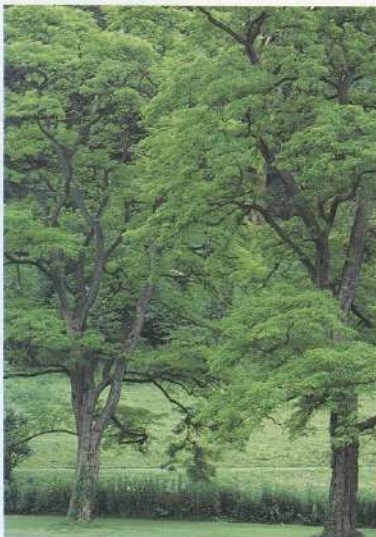
# Shape and Form

## Key Vocabulary

shape  
form  
geometric shape  
organic shape  
static  
dynamic

**W**HEN A LINE CURVES AROUND and crosses itself or intersects other lines to enclose a space, it creates a shape. Similar to a silhouette or an outline, a *shape* is two-dimensional. It has height and width, but no depth. It has one boundary and a single surface. We can easily identify many objects, from guitars to light bulbs, by their shape alone.

The word *form* describes something with three dimensions: length, width, and depth. Forms usually have weight and solidity. They may have only one continuous surface, like a Ping-Pong ball. Or they may have many surfaces, like a fish tank or a pinecone.

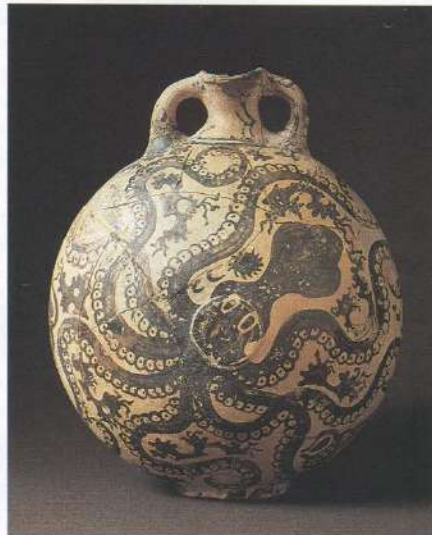


2-1 Consider the variety of shapes and forms that can be found on a single tree.

*Trees.* Photo by A. W. Porter.

2-2 The artist has allowed the familiar shape of an octopus to surround this jar.

Minoan (from Palaikastro).  
*Minoan vase decorated with an octopus*, c. 1500 B.C. 11" high (28 cm). Archaeological Museum, Herakleion, Crete, Greece.



Sculptors, architects, and product designers generally work with forms. They create solid structures, which have actual volume. Cartoonists, painters, photographers, and collage artists, on the other hand, usually work in two dimensions, even when they are depicting forms. When an artist paints an apple, for example, he or she may use the apple's shape and add shading to create the illusion of three-dimensionality, or form. But the image itself has only two dimensions.



2-4 Designed for quick, efficient, and safe travel, a highway interchange creates sweeping forms in the landscape.

*Freeway.* Photo by J. Selleck.

2-3 The figure is created from a series of well-defined and precisely cut forms.

Pre-columbian (Zapotec, AD 200-900), *Urn in the form of Cocijó, God of Lightning and Rain*, from Monte Albán, Oaxaca, AD 400-500. Fired clay, 28 1/2" x 21" x 18" (72.4 x 53.3 x 45.7 cm). Kimbell Art Museum, Fort Worth, Texas. Photo by Michael Bodycomb, 1987.

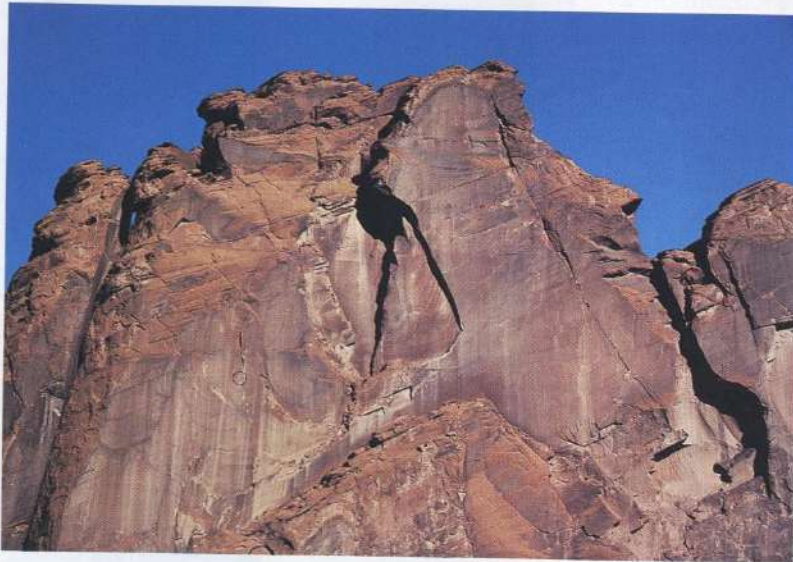


## Categories of Shapes

Artists and designers use various types of shapes and forms to create their finished products. In this chapter, you will explore these types and how they affect you as both artist and viewer. Although the following sections often refer specifically to shapes, in most cases, the information may be applied to both shapes and forms.

### Geometric and Organic Shapes

Shapes fit easily into two basic categories: geometric and organic. *Geometric shapes* are precise and sharply defined. Many of them are easy to recognize, such as circles, squares, and triangles. We often see such shapes in architecture. Also, many manufactured and hand-made products are based on geometric shapes. Nature shows us some geometric shapes and forms too. Honeybees make combs whose cells are in the shape of a hexagon, and an orange resembles the form of a sphere.



2-5 These rock formations have been shaped by natural forces such as wind and water.  
Rock. Photo by A. W. Porter.

2-6 David Smith sculpted many similar works, which he also called *Cubi*. In all of them, he explored design problems dealing with simple geometric forms in space. David Smith (1906–65). *Cubi XIV*, from the *Cubi* series, 1963. Stainless steel, 122 ½" high (311.2 cm). Purchase: Friends Fund. 32:1979, The Saint Louis Art Museum. ©Estate of David Smith, Licensed by VAGA, New York, NY.



**EXIT: Answer in a complete sentence: Why is it a good idea to do review work of the new information you are learning?**

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VOCABULARY NOTEBOOK ENTRY: color, hues, primary colors, secondary colors, intermediate colors

DO NOW: Page 45, "Beach Combers"

## Lesson 7

# Color

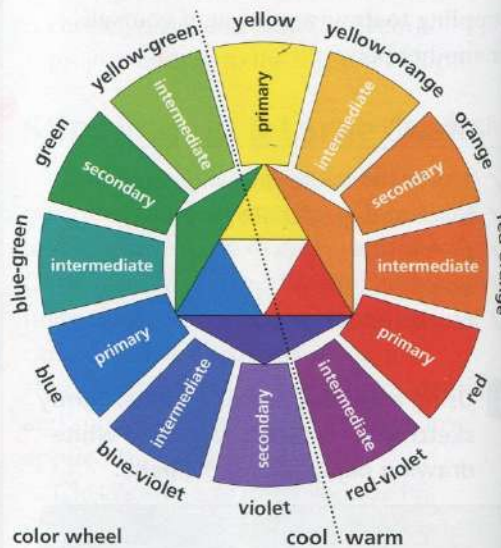
**Color** is the visual quality of objects created by the amount of light they reflect or absorb. A green object, for example, absorbs all colors of light except green. The green you see is the part of the light that is reflected back to your eyes. Sir Isaac Newton was the first to understand the nature of color. He was also first to discover that white is made up of all the colors of the rainbow.

Colors, also called **hues**, are classified as primary, secondary, or intermediate.

**Primary colors** consist of yellow, blue, and red. They cannot be made by mixing other colors. These three colors, along with black and white, can be mixed to make any color you can imagine.

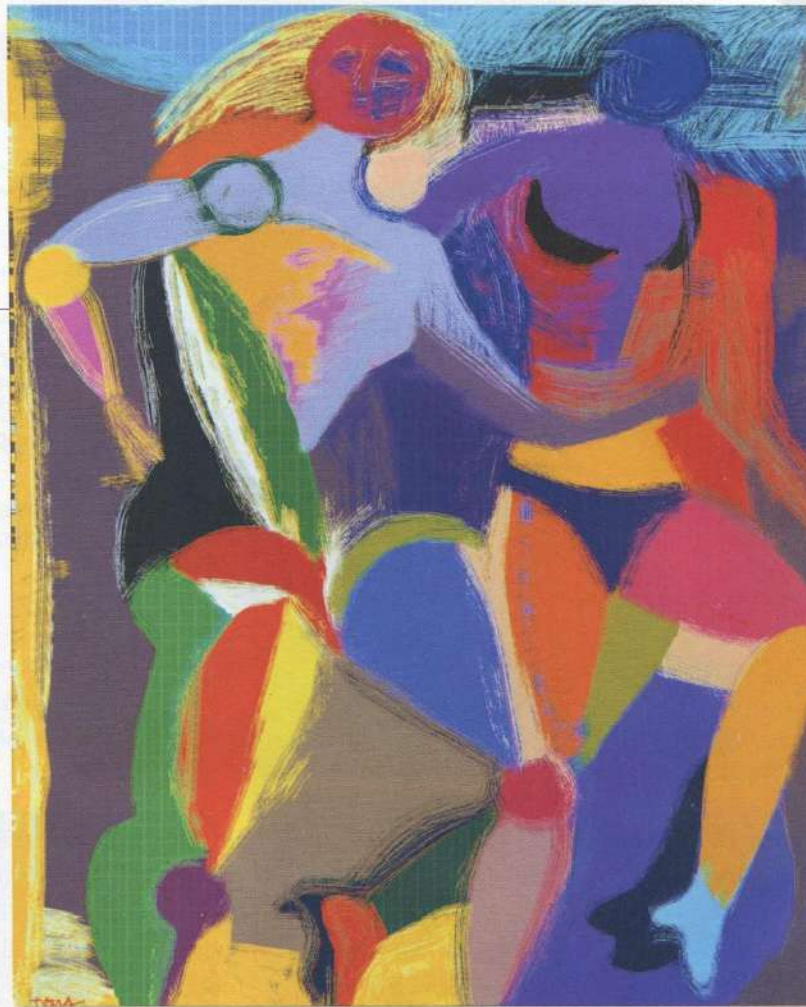
The **secondary colors** are orange, violet, and green, and are made by mixing two primary colors. Mixing yellow and red makes orange, blue and red make violet, and green is mixed from yellow and blue.

**Intermediate colors** are made by mixing a primary color and a secondary color that are next to each other on the color wheel. For example, blue-violet is made by mixing blue and violet. The primary color is always listed first in the names of intermediate colors.



Look for primary, secondary, and intermediate colors in nature.

Diana Ong. *Beachcombers*,  
1994. Computer graphics.  
Collection of the artist.



## Color and Value

In the last lesson, you read that value is the lightness or darkness of a color. Look at *Beachcombers*, by American artist Diana Ong (1940–). Notice the different values of yellow, blue, and violet. Though it appears to be a painting, Ong created the colors and their values in this artwork using a computer. Colors and their values can express different feelings and moods in an artwork. What mood do the colors in this artwork express?

## Research

Discover more about Sir Isaac Newton's experiments with color online or in your local library. How did Newton determine that white light contained the seven colors of the rainbow? Make notes about Newton's discoveries and how you can use his discoveries about color in your artworks.

**EXIT: Answer in a complete sentence: Why is it a good idea to do review work of the new information you are learning?**

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**VOCABULARY NOTEBOOK ENTRY: organic shapes, curved shapes, angular shapes**

**DO NOW: Page 37, Picture 2-8**

Although you may recognize certain geometric shapes in nature, most natural objects have **organic shapes**. Organic shapes reflect the free-flowing aspects of growth. They are often curved or rounded and appear in a variety of informal and irregular shapes. The form of a pear is organic. So too is the shape of a maple leaf.

Look at the geometric and organic shapes and forms on these pages. Do you see obvious differences and similarities? The painting by Joan Miró (fig.2-8) uses mostly organic shapes that are curved and round. The photograph of the *Bonaventure Hotel* (fig.2-7) shows that the structure is made up of geometric forms—both straight-edged rectangular forms and curving cylindrical ones.

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2-7 Architects frequently use geometric forms in their building designs. The cylindrical towers of glass and steel lend an air of elegance to the design of this hotel.

John Portman (b. 1924) and Associates. *Bonaventure Hotel*, 1975. Los Angeles. Photo by A. W. Porter.

2-8 How would you describe the various shapes that Miró uses in this work?

Joan Miró (1893–1983). *Series Black and Red (Série noire et rouge)*, 1938. Drypoint printed in black and red, 6 7/8" x 10 1/4" (16.8 x 25.8 cm). ©The Cleveland Museum of Art, 1998, Bequests of Charles T. Brooks and Grover Higgins by exchange, 1981.25. ©1999 ARS, New York/ADAGP, Paris.





## Curved and Angular Shapes

Geometric and organic shapes may be either curved or angular. Shapes that are curved are graceful, and because the eye rapidly sweeps along them without interruption, they tend to imply movement.

Angular shapes, on the other hand, are straight-edged. They suggest strength and regularity. When you look at angular shapes, your eyes move along the shape and stop momentarily where one shape connects with another. These meeting or opposing shapes may add a sense of tension to a design. If an angular shape, for instance, leans to one side, it might suggest movement.

Compare the sculptures by José de Rivera (fig.2-11) and William Tucker (fig.2-12). The curved shapes of the first piece describe movement that is both fluid and predictable. The second sculpture expresses quite a different feeling. The objects leaning into one another give the piece a sense of tension. Although both sculptures convey motion, Tucker's sculpture shows opposing thrusts of horizontal, vertical, and angular forms.

2-9 The shape of the nautilus shell is more clearly defined by the bands of colors that accent the curve of the shell.

*Nautilus shell.* Photo by A. W. Porter.



2-10 The intertwining of these roots makes strong angular shapes.  
*Tree roots.* Photo by A. W. Porter.

### Try it



To explore the contrasting feelings of different shapes, draw two designs. Construct one with only curved shapes. Construct the other with only angular shapes. You may use rulers, compasses, french curves, and triangles to help you create the shapes.



2-11 This sculpture is made with a forged rod of stainless steel.

José de Rivera (b. 1904).

*Construction 8*, 1954.

Stainless steel forged rod, 10" x 16" x 13" (25.4 x 40.6 x 35.5 cm) including base. The Museum of Modern Art, New York. Gift of Mrs. Heinz Schulz. Photograph ©1998 The Museum of Modern Art, New York.



2-12 Notice the similarities between these cylinders and the roots in fig.2-10.

William Tucker (b. 1935).

*Untitled*, 1967. Steel, 80" high (203 cm). Franklin Murphy Sculpture Garden, University of California, Los Angeles. Photo by J. Selleck.

**EXIT: Answer in a complete sentence: Name 4 places where you can find the Daily Do Now Art Image to draw.**

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VOCABULARY NOTEBOOK ENTRY: warm colors, cool colors, color scheme, monochromatic, analogous, complementary, neutral

DO NOW: Page 46 “ Bridge Over the Riou”

### Studio 7 Setup

## Warm and Cool Colors



André Derain. *Bridge Over the Riou*, 1906. Oil on canvas, 32 1/2 by 40 inches. The Museum of Modern Art, NY.

How would you describe the colors in this artwork?

Another way to classify colors is to group them into warm colors and cool colors. Reds, yellows, and oranges are **warm colors**. Greens, blues, and violets are **cool colors**. Look closely at the colors that French artist André Derain (1880–1954) used in *Bridge over the Riou*.

- The bright, warm colors and values of red, yellow, and orange seem to project. The lighter color values give the impression of sunlight.
- The cool, darker blues, violets, and greens add contrast and seem to recede, giving the illusion of depth.

### Colors and Feelings

Think about the feelings or moods that warm colors and cool colors express. Warm colors often remind viewers of sunlight,

firelight, and the feelings of warmth they convey. Cool colors often express a peaceful and relaxed feeling, but cool colors also may suggest fear or loneliness. Consider the moods and feelings you wish to express as you select colors for your artworks.

## Technique Tip

### Mixing Paints

When mixing colors, add small amounts of color to get just the color you are looking for. Make adjustments as needed in the amount of paint you mix. To help achieve a violet hue, try mixing a small amount of white paint to the red and blue.

## Lesson 8

# Color Schemes

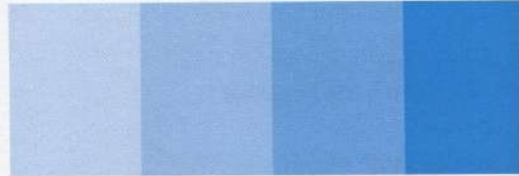
A **color scheme** is a plan for using colors in an artwork. Planning a color scheme in advance helps an artist create the effects he or she wants to achieve.

A **monochromatic** color scheme uses different values of a single hue. This type of color scheme creates a sense of wholeness, or unity.

An **analogous** color scheme uses colors that are side by side on the color wheel and that share a hue. Look at the analogous color scheme on this page. What hue do all the colors share? An analogous color scheme may include both warm and cool colors.

A **complementary** color scheme uses hues that are across from each other on the color wheel; for example, green and red or orange and blue. A complementary color scheme creates a bold, attention-getting artwork.

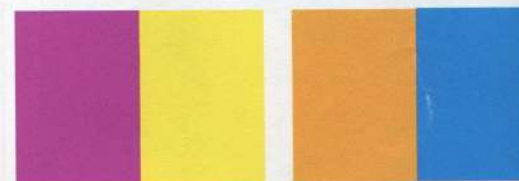
**Neutral** color schemes include black, white, and values of gray. Brown is also considered a neutral color by many artists.



monochromatic



analogous



complementary



neutral



**EXIT: Answer in a complete sentence: Name 4 places where you can find the Daily Do Now Art Image to draw.**

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VOCABULARY NOTEBOOK ENTRY: positive shapes, negative shapes, shape quality

DO NOW: Page 41, Picture 2-15

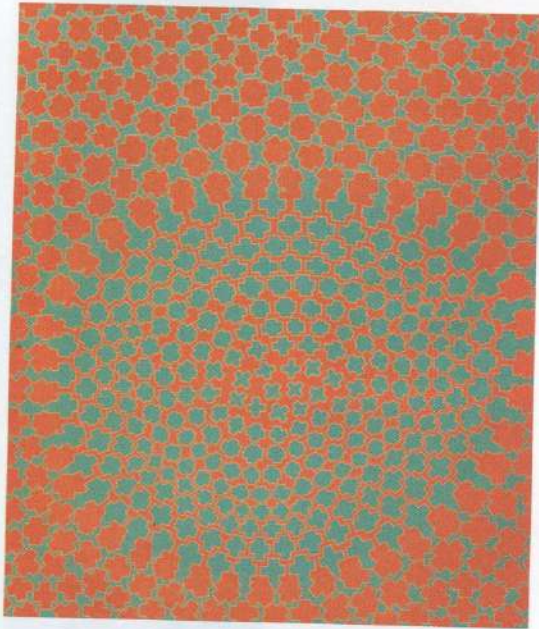
### Positive and Negative Shapes

Every design—whether it is a painting, sculpture, building, or photograph—is made of positive and negative shapes. Positive shapes are the tangible, actual aspects of a design. In painting or drawing, they often represent solid forms, such as a bowl of fruit in a still life. In sculpture, the positive shapes are the solid forms of the sculpture itself.

Negative shapes are the areas that either surround the positive shapes or exist between them. In a still-life painting, they are the spaces around the bowl of fruit, between fruit forms, or in the background. In sculpture, the negative shapes are the empty spaces around and between the solid forms.

Positive and negative shapes are equally important. A successful design is one that carefully balances both. Look at the pre-Columbian *Pendant figure* (fig. 2-16). Notice that the artist placed two curved openings above the figure's arms. These negative shapes echo both the curves of the figure's headdress above and those of the blade below. Together, the positive and negative shapes create a unified whole.

Sculptures and silhouettes present a strong contrast between positive and negative shapes. Sometimes, however, an artist prefers to blur the boundaries between them. Study *Plus Reversed* by Richard Anuszkiewicz (fig. 2-13). Can you tell which shapes are positive and which are negative?



2-13 Anuszkiewicz explores optical illusion in his art, and his work helped lead the way to the development of the 1960s art movement called Op Art.

Richard Anuszkiewicz (b. 1930). *Plus Reversed*, 1969. Oil on canvas, 74 3/4" x 58 3/4" (189.6 x 148 cm). Jack S. Blanton Museum of Art, The University of Texas at Austin, Gift of Mari and James A. Michener, 1991. Photo by George Holmes. ©Richard Anuszkiewicz, licensed by VAGA, New York, NY.



2-14 The effectiveness of this piece relies heavily on the contrast between its positive and negative shapes.

Anna Atkins (1799-1871). *Pink Lady's Slipper, Collected in Portland (Cipripedium)*, 1854. Cyanotype, 10 1/16" x 7 13/16" (25.8 x 20.2 cm). J. Paul Getty Museum, Los Angeles.

### Try it



Create a design in which you balance positive and negative shapes. Use a sheet of white or cream-colored paper to represent the negative shapes. Cut a number of positive shapes from black paper. Arrange these into a variety of positions, and study the kinds of negative shapes you can produce. When you are satisfied with your design, glue down the black shapes.



## About the Artist

# Jacob Lawrence

Jacob Lawrence was born in 1917 and grew up in Harlem, New York, during the Great Depression. The public library (fig. 2-15) there played an important role in his life: he took his first art class in its basement, and he also spent many hours there researching African-American history. This research provided him with the ideas and information he needed to create his many series of painted images. Each series highlights an important figure (such as Harriet Tubman or Frederick Douglass) or event (such as the migration of people from the South to the North) in African-American history.

Jacob Lawrence has brought a personal vision to his work that has been little influenced by the upheavals within modern art.



2-15 How has Jacob Lawrence unified the negative areas of this painting?

Jacob Lawrence (b. 1917). *The Library*, 1960. Tempera on fiberboard, 24" x 29 7/8" (60.9 x 75.8 cm). National Museum of American Art, Smithsonian Institution, Washington, DC. Photo National Museum of American Art, Washington, DC/Art Resource, New York.

Unlike most artists who progress through a variety of stylistic changes during their career, Lawrence's style has shown little variation throughout the sixty years he has painted. The subjects of his painting focus on the things he knows best: African-American history, culture, and contemporary life.



2-16 Note how the negative (empty) areas in this figure form an important part of the overall design.

Popayán (Cauca). *Pendant figure with headdress*, 1000-1600 AD. Cast and hammered gold, 6 1/2" x 4 3/4" (16.5 x 12.1 cm). Museo del Oro, Banco de la República, Bogotá.

## Try it



Paint or draw a still life. You may use a small cardboard frame as a viewfinder to help you search for effective positive and negative shapes. Once you've found a pleasing arrangement, begin by drawing or painting all the negative shapes. Then add the positive ones.



## Qualities of Shape

Shapes and forms also have different qualities. To understand a shape's quality or appearance, you can use your senses. Your sense of sight can tell you if a shape is pleasing to look at. Use of several senses together can also give you information. Touch and sight will tell you about a form's surface and weight. Through sight, touch, taste, and even hearing its crunch, you know that an apple is hard and crisp. Being aware of appearances—such as perceived weight, surface quality, and position—will help you portray shapes and forms convincingly in your designs.

2-17 Looking at and touching the white downy head of the dandelion weed informs us of its light delicate shape. Its fine structure is designed to be set free by the wind to distribute seeds for new plants.

*Dandelion (Taraxacum officinale)*. Photo by J. Scott.



### Try it



Choose two objects that are about the same size. Draw one light and soft, and draw the other heavy and solid. Try to capture the contrast between the objects' surface qualities. Then create a small sculpture of each object. Use materials like thin wire or string to suggest airiness and delicacy. Use clay or wood to convey solidity and weight. Compare the two representations of each object to each other and to the original object.



2-18 The weighty appearance of this hippo is in contrast to its small size.

Ancient Egypt. *Hippopotamus*, Middle Kingdom (c. 1991–1784 BC) or Second Intermediate Period (c. 1784–1570 BC). Blue faience, 8" x 3 3/4" (20.3 x 9.2 cm). Museum Appropriation. ©Museum of Art, Rhode Island School of Design. Photo by Del Bogart.

**EXIT: Answer in a complete sentence: Answer in a complete sentence: Name 4 places where you can find the Daily Vocabulary Words.**

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**VOCABULARY NOTEBOOK ENTRY: tints, shade, intensity**

**DO NOW: Page 50 "Still Life: Vase with Twelve Sunflowers "**



Marilee Whitehouse-Holm. *Fish Scents*, 1996. Watercolor on paper, 22 1/2 by 30 inches. Collection of the artist.

## Color Schemes and Mood

Notice the colors in this artwork by American artist Marilee Whitehouse-Holm (1949– ). She used a complementary color scheme of blues and oranges. The different values of the hues help show space and depth. Notice how the artist's use of neutral colors adds contrast to the brighter hues. Think about the effects the artist wanted to achieve. What feeling or mood does the artwork express? How do the colors contribute to this mood? Think about other color schemes that could be used in a painting of fish.

## Visual Culture

You probably use color to choose the clothes you wear each day. Look at the clothing on mannequins in store windows. The clothing is often selected based on its color. Make notes about other locations in your environment where colors are used to attract your attention and tell how.



## Studio 8 Setup

# Value in Color Schemes

Vincent van Gogh. *Still Life: Vase with Twelve Sunflowers*, 1888. Oil on canvas, 35 1/2 by 28 inches. Bavaria State Collection of Paintings, Munich.



What kind of color scheme did Van Gogh use in this painting?

This painting by Vincent van Gogh (1853–1890) shows a monochromatic color scheme. Notice how the yellows give the viewer a feeling of warmth and comfort. The artist got the same feelings from the different values of the warm hue. Van Gogh's use of yellows brought him happiness and joy. Look closely for these details:

- The contrast between the light and dark hues creates implied lines.
- Van Gogh's use of value gives the illusion of form to the vase and flowers.

## Properties of Color

You have read that value is one of the properties of color. By changing the value of a hue, an artist can create many variations. Lighter values of a hue, called **tints**, are made by mixing a hue with white. Mixing black with a hue creates a **shade**; it has a darker value than the hue.

Another property of color is **intensity**, or a hue's brightness or dullness. A color in its purest form has the highest intensity. The intensity of a color can be lowered by mixing it with its opposite on the color wheel.

## Technique Tip

### Clean Water

To be sure your colors stay true and pure, keep clean water handy. Rinsing your brush in the same water over and over can affect the colors you mix. Dirty water can cause your colors to become muddy, or even change the color altogether. Once you rinse your brush, it is also a good idea to blot it well with a paper towel.

**EXIT: Answer in a complete sentence: Answer in a complete sentence: Name 4 places where you can find the Daily Vocabulary Words.**

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**VOCABULARY NOTEBOOK ENTRY: light shapes, heavy shapes, smooth shape, textured shape**

**DO NOW: Page 45, Picture 2-24**

**Light and Heavy Shapes**

There is a striking difference in the perceived weight of a cloud and that of a boulder. To draw or construct shapes effectively, an artist must understand how to convey qualities such as lightness and heaviness. Soft, floating clouds usually require a lighter touch, with a subtle blending or blurring of edges. Rocks and boulders, on the other hand, demand a strong, hard quality.

Look at the landscape painting by Thomas Moran (fig.2-19). Notice how Moran depicted the sky, the mountains, and the mist of falling water. Each is distinct and recognizable.



2-19 Artists and tourists continue to capture this famous area, now part of Yellowstone National Park.

Thomas Moran (1837-1926). *The Grand Canyon of the Yellowstone*, 1872. Oil on canvas, 7' x 12' (2.13 x 3.66 m). Lent by the Department of the Interior Museum. National Museum of American Art, Smithsonian Institution, Washington, DC. Photo National Museum of American Art, Washington, DC/Art Resource, New York.

2-20 The heaviness of the forms exaggerates the weight of the cat and provides a uniquely humorous appearance.

Fernando Botero (b. 1932). *Cat*, 1984. Bronze, 39" x 128" x 42" (99 x 325.1 x 106.7 cm). Estate of Frederick R. Weisman. Photo by J. Selleck.



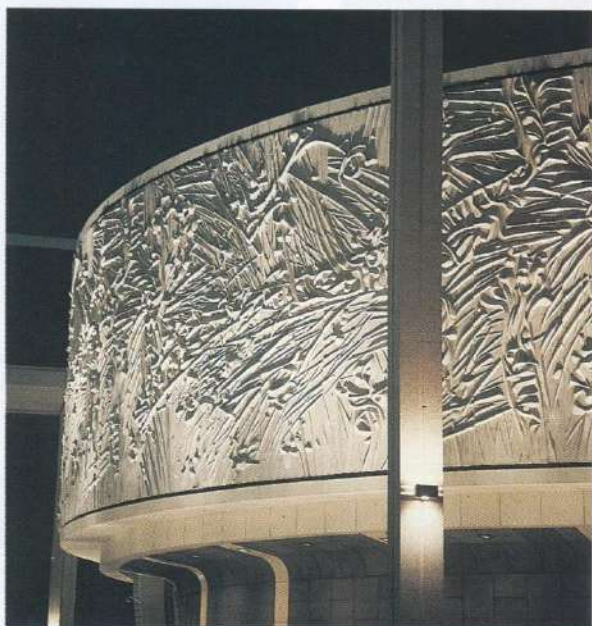


## Smooth and Textured Shapes

Another important quality of a shape is its surface. Is the surface flat and reflective like a pane of glass? Or is it rough and pitted like tree bark? Your eyes and your fingers move easily across the smooth surfaces of glass, sanded wood, polished metal, and plastic. The speed of your observation is slowed by a textured surface, such as an intricately knitted sweater or the shell of a turtle.

Light strongly affects the surface qualities of a shape. A smooth surface reflects light easily, and the reflections can be very bright. A heavily textured surface tends to absorb light, thereby reflecting far less. Notice the difference between the smooth and textured surfaces in fig. 2-23.

By emphasizing surface qualities, artists can create shapes and forms that are both interesting and lifelike. Pay attention to surface quality: doing so can help you appreciate the unique and the not-so-unique—in nature, in art, and in everyday objects.



2-21 How has the nighttime lighting enhanced the outer surface of this theater?

Welton Becket (1902–69) and Associates. *Mark Taper Forum*, Music Center, 1964–69. Los Angeles. Photo by A. W. Porter.

2-22 The artist uses smooth shapes to create a flowing sense in the chair's construction.

Alan Siegel (1913–78). *Torso Chair*, 1977. Silver painted wood, 47" x 29 1/2" x 24" (119 x 74.9 x 61 cm). Courtesy of the Frederick R. Weisman Art Foundation.



### Try it



Use lightweight paper and crayons or soft-leaded pencils to create rubbings. Choose a variety of surfaces: smooth, textured, and a mixture of both. Place the paper on the surface. Then rub a crayon across it until the surface texture becomes apparent. These experiments will help you create various surface textures in your own designs.





2-23 This student work demonstrates an effective combination of smooth and textured surfaces. The smooth, reflective wire and marbles stand out from the colored paper which absorbs the light.

Josh Jones (age 19). *Wire Screen*. Wire, colored paper, marble, 12" high (31 cm). Montgomery High School, Skillman, New Jersey.

## Try it



Gather items with intriguing textural surfaces, such as pieces of tree bark, grains of sand, and various seeds.

Design a texture collage by gluing the items onto different areas of cardboard. You might create a design that combines geometric and organic shapes.

## About the Artwork

### Meret Oppenheim Object

We expect common objects to have certain recognizable surface textures. Artists, however, sometimes transform everyday items into ones that are surprisingly eerie and bizarre. Meret Oppenheim, the creator of *Object*, was a Swiss artist of Surrealism, a twentieth-century style of art in which artists combine normally unrelated objects and situations.

The idea for *Object* was born during an encounter between Oppenheim and Picasso in the Café Flore in Paris. Picasso admired Oppenheim's bracelet, which was made from brass and covered with fur, remarking that anything might be covered with fur. The story goes that Oppenheim then requested some hot water for her tea that had grown

cold. The expression in French for a warm-up is *un peu plus de fourrure* ("a little more fur")—and the seed for the concept was planted.

Continuing the train of thought begun by her conversation with Picasso, Oppenheim, after leaving the café, immediately headed for a department store to purchase a teacup and spoon. The result was her renowned fur-lined cup, which is simply called *Object*.

The first few times that *Object* was exhibited, it received both praise and anger from the public. Unusual effects, such as those in *Object*, can provoke a strong psychological reaction in the viewer—even when the original form is simple and innocent. *Object* became the symbol of Surrealism; it is almost always mentioned in any discussion of the movement.



2-24 Why does this artwork make many people feel so uncomfortable?

Meret Oppenheim (1913–1985). *Object (le déjeuner en fourrure)*, 1936. Fur-covered cup, saucer, and spoon; cup 4 3/8" (10.9 cm) diameter; saucer 9 3/8" (23.7 cm) diameter; spoon 8" (20.2 cm) long; overall height 2 7/8" (7.3 cm). The Museum of Modern Art, New York, Purchase. Photograph ©1998 The Museum of Modern Art, New York. ©1999 ARS, New York/ProLitteris, Zurich.

**EXIT: Answer in a complete sentence: Name 2 places where you can always find the Daily Exit.**

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VOCABULARY NOTEBOOK ENTRY: texture, tactile texture, visual texture

DO NOW: Page 52 "Arnolfini Marriage "

## Lesson 9

# Texture

**Texture** is how something feels to the touch or how it appears that it might feel. The way a surface feels is called **tactile texture**, or actual texture. Sandpaper, for example, feels rough. The way a surface appears to your eye is called **visual texture**, or simulated texture, such as shiny or dull. A painting of a silver vase might show both its smooth and shiny textures.

Locate the different visual textures in the painting on this page by Flemish painter Jan van Eyck (ca. 1395–1441). Notice how the chandelier and the mirror on the back wall appear smooth and shiny. How might it feel to touch the frame of the mirror? The artist's use of value helps give the appearance of softness to the figures' clothing. Describe other visual textures you see in the painting.



Jan van Eyck. *Arnolfini Marriage*, 1434. Oil on wood, 32 1/4 by 23 1/2 inches. The National Gallery, London.



How would you describe this texture?



Notice the smooth texture of the rocks.



Deborah Butterfield. *Horse #2-85*, 1985. Mixed-media sculpture, 33 3/4 by 48 by 109 inches. Arizona State University Art Museum. Gift of the Graham Foundation and the Art Heritage Fund.



## Texture and Expression

Look at the variety of textures in this sculpture by American artist Deborah Butterfield (1949– ). Butterfield used a combination of recycled metal, wood, and even a tire. Notice how these materials help define the form of the horse. Imagine the textures you might feel if you could touch this sculpture. Find rough, smooth, and bumpy textures. Think about why Butterfield chose the materials she did and what she wanted to express about the horse.

Imagine how this sculpture might be different if the artist had used materials such as smooth, finished wood and shiny, polished metals. How would these materials and textures change the meaning of the artwork?

### Sketchbook Journal

Record interesting textures by making rubbings with charcoal or crayon and paper. Make sketches of the same objects in your Sketchbook Journal, using shading techniques to show textures. Label the textures with descriptive words.

**EXIT: Answer in a complete sentence: Name 2 places where you can always find the Daily Exit.**

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VOCABULARY NOTEBOOK ENTRY: static, dynamic, artificial light, natural light, angle of light, highlights, shadows

DO NOW: Page 47, Picture 2-28

Shape and Form

### Static and Dynamic Shapes

The position of a shape or form is important and might suggest rest and stability or a feeling of energy and movement. Shapes that are in either a vertical or a horizontal position will appear to be standing still or resting; these shapes are *static*. Leaning or diagonal shapes suggest falling, running, or climbing. The shapes appear to be active, or *dynamic*. Dynamic shapes are associated with change or movement.



2-25 Describe how the artist achieved a sense of stability and permanence in these gigantic figures.

Ancient Egypt. *Four colossi of Ramses*, c. 1257 bc. From the Temple of Ramses II, 59' high (18 m). Abu Simbel. Photo by Richard Putney, University of Toledo, Toledo, Ohio.

2-26 Compare the sweeping motion of these figures with the static poses of Ramses II (fig. 2-25). What words would you use to describe each?

Charles Demuth (1883–1935). *Three Acrobats*, 1916. Watercolor and graphite on paper, 13" x 8" (33 x 20.3 cm). Amon Carter Museum, Fort Worth, Texas.



### Try it

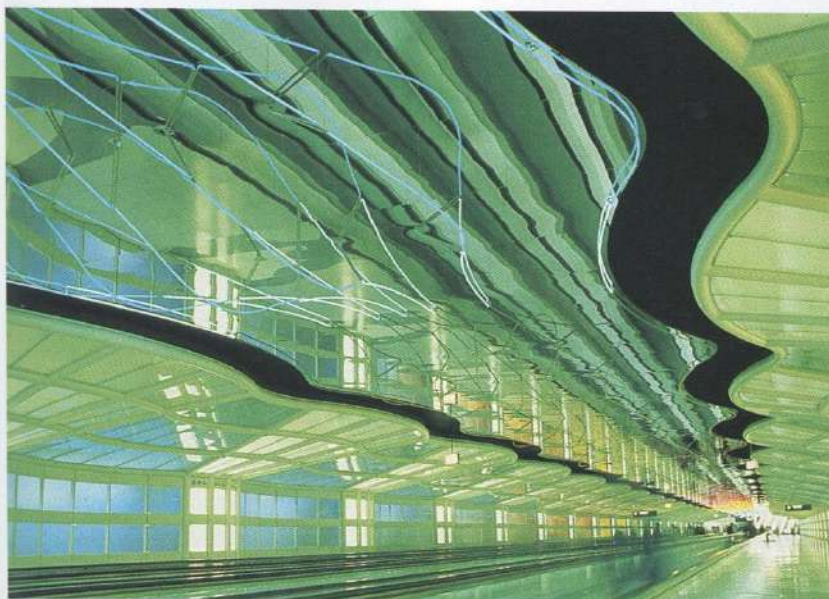


Create two small sculptures—a static arrangement and a dynamic arrangement. You may use clay, paper, or toothpicks joined with bits of clay. Note the category of shapes you use to create each sculpture: Do you rely on certain categories to make a static arrangement and others for a dynamic one?



An artist may use static shapes to produce a peaceful landscape design. For example, a combination of vertical trees and a horizontal stream can imply quiet and calm. But static shapes can also be used to convey permanence and power. Look at the monumental carvings at Abu Simbel, in Egypt (fig.2-25). The static shapes of this ancient temple display a sense of solidity and immovability; such constructions announced to all that the great pharaohs who built them were to be obeyed and respected.

To achieve a more active feeling, an artist must turn to more dynamic shapes. Notice the curved and fluid shapes in Charles Demuth's *Three Acrobats* (fig.2-26). The shapes produce an atmosphere of movement and change; the figures seem to be whirling across the paper. Soft watercolors and light pencil lines underneath add to the airiness of the design.



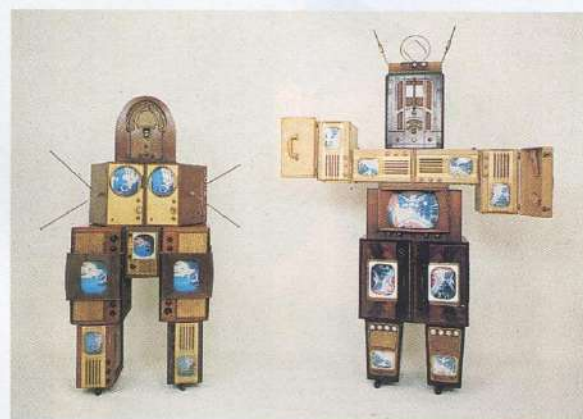
2-27 The United Airlines terminal at Chicago's O'Hare International Airport uses dynamic shapes to create an eye-catching show for travelers.

Michael Hayden (b. 1943). *Sky's the Limit*, 1987. Neon tubes and mirrors, controlled by computers with synchronized music, 744' long (226.8 m). United Airlines Terminals, O'Hare International Airport, Chicago. Courtesy of United Airlines.

### Try it



Use only vertical and horizontal shapes to make a cityscape from cut paper. Contrast this to a work that emphasizes diagonal or other dynamic shapes. How are the works different?



2-28 These robot sculptures by Nam June Paik are made of actual TVs and radios. The boxlike forms convey a sense of rigidity and awkwardness, but the lights and sounds of the TV screens and radio speakers add a dynamic quality that is not apparent in a still photograph.

Nam June Paik (b. 1932). *Family of Robot: Grandfather and Grandmother*, 1986. Video sculpture, grandmother: 80 3/4" x 50" x 19" (205 x 127 x 48 cm); grandfather: 101" x 73" x 20 1/2" (256.5 x 185 x 52 cm). Courtesy of the Holly Solomon Gallery, New York.



## Form and Light

Both artificial and natural light have an enormous effect on shapes and forms. Bright sunlight, for instance, can create dark shadows and glaring highlights. But as the sun sets or goes behind a cloud, crisp, well-defined landforms change to dark, flat shapes. A great contrast in light is also noticeable in the soft light of sunrise and the dazzling light of noon.

The angle of the light also helps define the forms we see. An overhead source of light usually creates shorter shadows and can make surface textures indistinct. A source of light from one side will lengthen and distort the shadows, calling attention to details of surface texture. (See Chapter 6 for more about the way light affects textures.)



### Try it

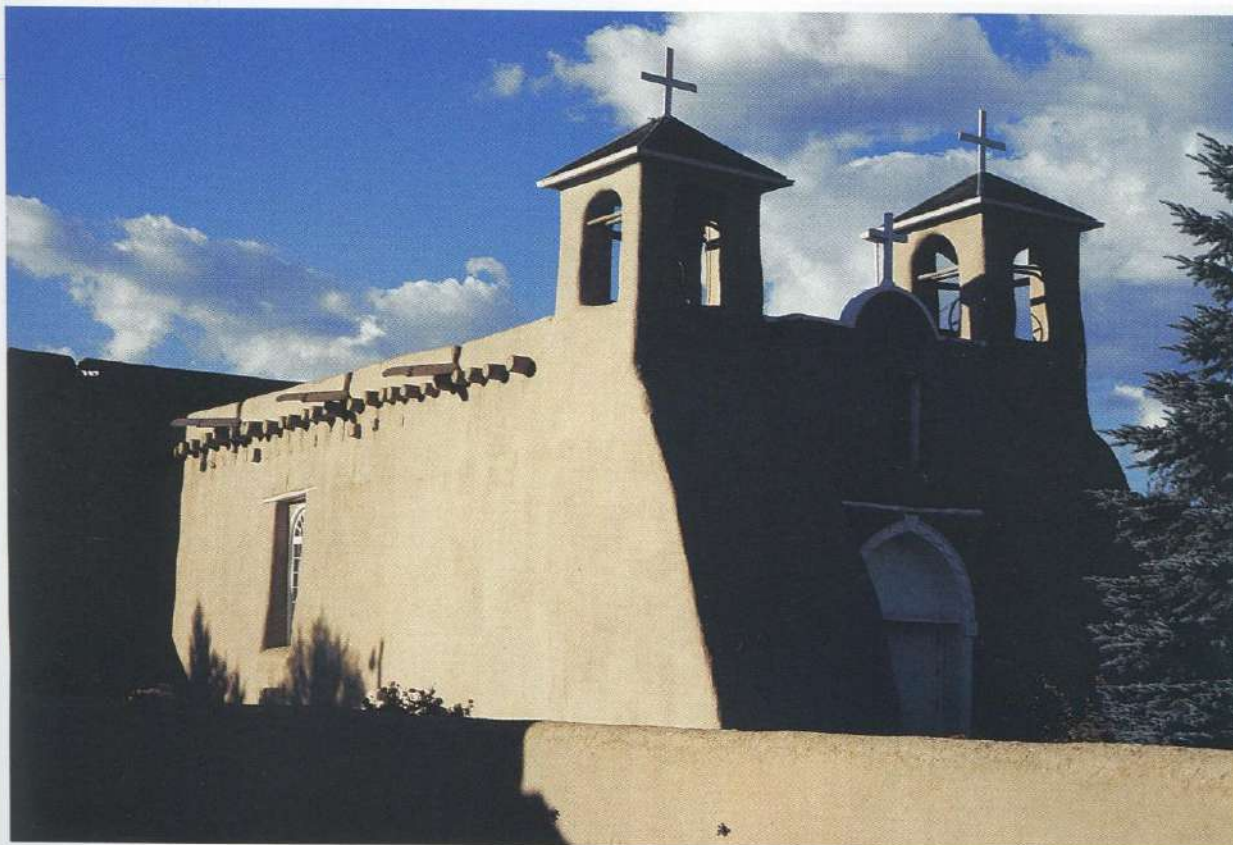


Collect objects with varying surfaces and angles. You may wish to use something round, like a globe; something with a flat, shiny surface, like a piece of metal; and something with pleats or folds, like fabric or paper. Cast light from a floodlight or lamp onto the objects from different angles to dramatize the forms.

2-29 How does the angle of the light in each of these three images define the form of the face?

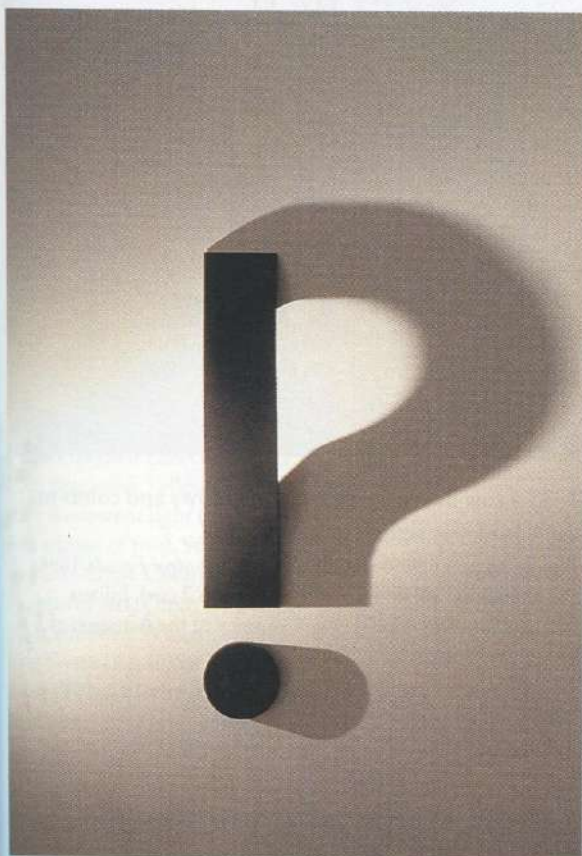
Photos by T. Fiorelli.





2-30 The powerful forms of this building are emphasized by the late-afternoon sunlight cast against the exterior walls. The contrasts of light and shadow enhance the solid structural forms.

*St. Francis of Assisi, Rancho de Taos, New Mexico. Photo by A. W. Porter.*



2-31 How does the artist draw the viewer's attention to this work?

Kumi Yamashita (b. 1968).  
*An Exclamation Mark*, 1995.  
Wood, light, cast shadow,  
48" x 78" x 6" (121.9 x 198 x  
15.2 cm). Courtesy of the  
artist. ©1995 Kumi  
Yamashita. Photo by  
Richard Nicol.



On round or curved forms, light creates gradual changes and shadows. Usually, the brightest and darkest areas are separated from one another by many gradations of light. On angular and sharp-edged forms, however, the changes can be sudden. The brightest highlights may appear right next to the darkest shadows. These changes from light to dark are discussed more fully in Chapter 3.

Light is a powerful part of design; it has a strong impact on both the shapes and forms you see and those you reproduce in your art. An understanding of light and shadow is critical to the mastery of form. Experiment with light and try to duplicate its numerous effects.



**2-32** Impressionist Claude Monet devoted countless hours to painting outdoors. He worked at various times of day and during different seasons. Compare his two 1894 paintings of Rouen Cathedral, in France.

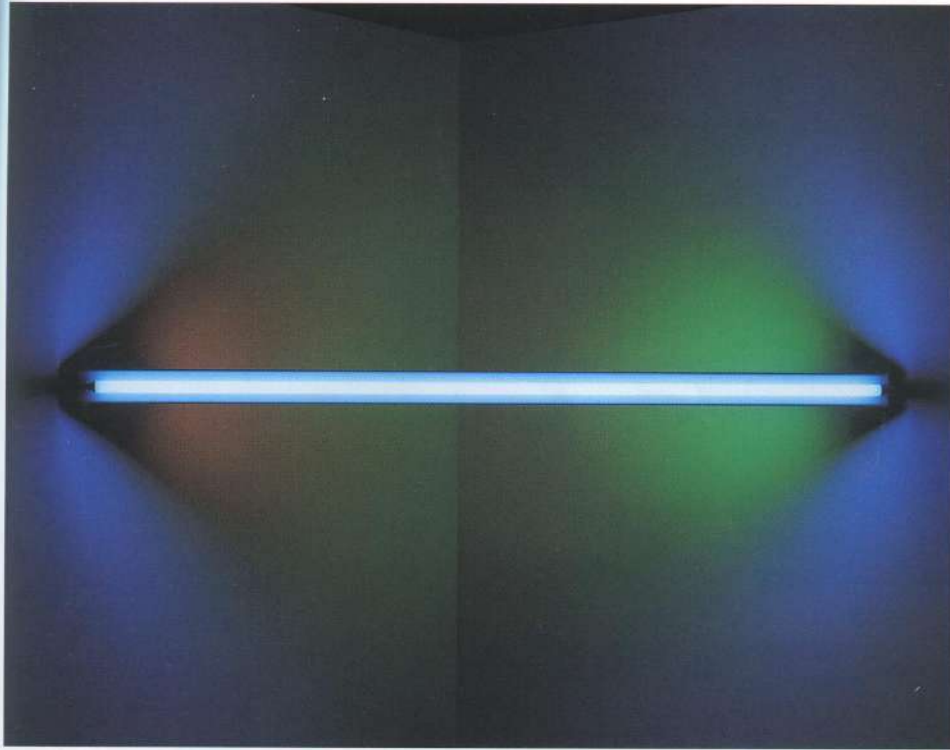
Claude Monet (1840–1926). *Rouen Cathedral Façade and Tour d'Albane (Morning Effect)*, 1894. Oil on canvas, 41 <sup>13</sup>/<sub>16</sub>" x 29 <sup>1</sup>/<sub>8</sub>" (106.1 x 73.9 cm), Tompkins Collection. Courtesy of the Museum of Fine Arts, Boston.



**2-33** How has the artist used shadows and colors to show mid-day light?

Claude Monet (1840–1926). *Rouen Cathedral Façade*, 1894. Oil on canvas, 39 <sup>3</sup>/<sub>4</sub>" x 26 <sup>1</sup>/<sub>8</sub>" (100.5 x 66.2 cm), Juliana Cheney Edwards Collection. Courtesy of the Museum of Fine Arts, Boston.



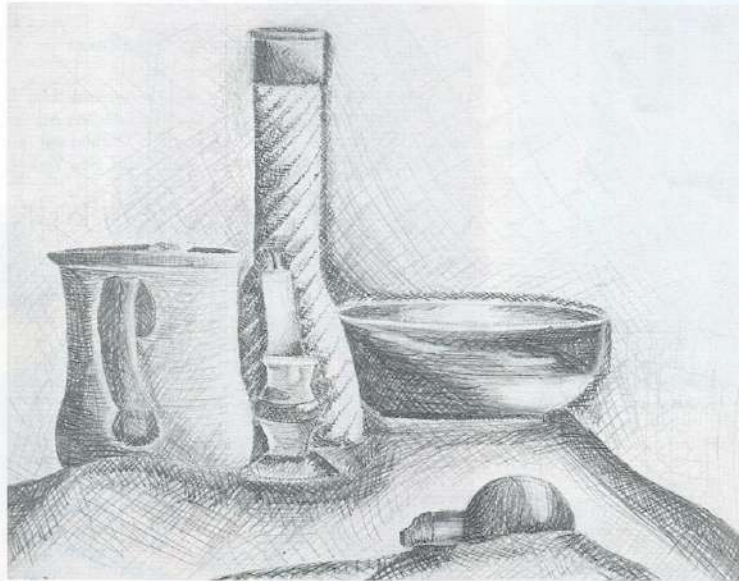


2-34 Dan Flavin makes forms with light. Some of the lighting tubes in this piece are not visible to the viewer. The artist wants us to focus on the cast light, not on the lighting tubes themselves. What kind of forms do you see?

Dan Flavin (1933–96), *Untitled (to Janie Lee) One*, 1971. Blue, pink, yellow, and green fluorescent light (first from edition of five), 96" long (243.8 cm). Columbus Museum of Art, Ohio; Gift of Mr. and Mrs. William King Westwater. ©1999 Estate of Dan Flavin/ARS, New York.

2-35 This still-life drawing explores the effect of light on curved forms.

Lauren Totero (age 15). *Still Life with Vase*, 1997. Pencil, 11" x 14" (28 x 36 cm). Clarkstown High School North, New City, New York.



### Try it

In your home, school, or neighborhood, look at shadows created by artificial and by natural light. Using just black and white media, experiment with designs that capture any shadows with unusual or intriguing shapes.

**EXIT: Answer in a complete sentence: What are 5 reasons we do Class Critiques of our Digital Art Projects?**

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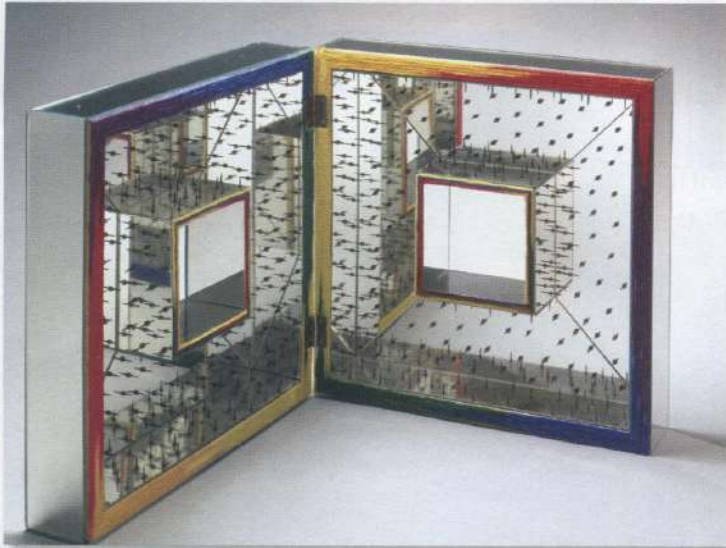


VOCABULARY NOTEBOOK ENTRY: N/A

DO NOW: Page 56 “Angels #2”

### Studio 9 Setup

## Texture *and* Materials



Lucas Samaras. *Untitled*, 1965.  
Mixed media, 16 1/2 by 14 inches.  
Newark Museum, Newark, NJ.

Point out rough, smooth,  
and shiny textures.

Artists use texture to express ideas and feelings, and to add interest to their artworks. They choose materials that have interesting textures and that viewers will respond to in a certain way. Look for these details in this artwork by Lucas Samaras (1936–):

- The reflections of the pointed tacks add visual interest and a sense of motion.
- The rows of yarn add color and interest while providing a bumpy texture.
- The artist's use of mirrors provides visual texture.

### Choosing Materials

Samaras combined a variety of materials to create both tactile and visual textures in this box construction. His use of materials also adds a sense of whimsy, or fantasy. Notice how the mirrors create repeated lines and geometric shapes. Where do you notice

negative space? Imagine how different materials would change the message and feeling of the artwork. What materials could you use to show tactile and visual texture in your artworks?

## Technique Tip

### Found Objects

A found object is something one finds, such as spools, toys, and wood, that was not originally intended as part of an artwork. Collect usable found objects that have interesting textures. Look for found objects on your way to school or on a walk. Be sure any objects you collect are free of sharp edges.



# Portfolio Project

## Show Shapes in Motion



Diana Ong. *Angels #2*,  
Computer graphics.  
Collection of the artist.

### Plan

As you have read, artists often use the elements of art to show motion and energy in their artworks. Although it appears to be painted or drawn with oil pastels, Chinese American artist Diana Ong (1940– ) created this artwork using a computer. It shows how the artist used lines, shapes, and colors to show a sense of movement. The vibrant colors give a feeling of energy, adding to the action and movement of the flowing shapes.

- The artist's use of color and organic and geometric shapes help create actual and implied lines.
- Ong used tints and shades of blue. How would the mood be different if the artist had used only colors of blue?

### Sketchbook Journal

Practice sketching organic and geometric shapes that show motion. Think about how repeating shapes in an artwork can add the illusion of movement. Draw a shape that represents movement. Repeat the shape, allowing some to overlap. What colors will help add a sense of motion?

**EXIT: Answer in a complete sentence: What are 5 reasons we do Class Critiques of our Digital Art Projects?**

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