

Magic of Line and Design

Forms and Shapes

Form and shape are two closely related elements of design. Usually, shape refers to the outer edges of a flat surface. Examples of shapes include rectangles, circles, squares, trapezoids, ovals, etc. A form is a three-dimensional object that you can look at from all angles. Three-dimensional forms include spheres, pyramids (cones), cylinders (tube), cubes, etc.

Vocabulary

Words:

Design

Form

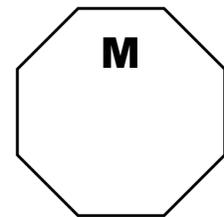
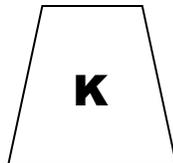
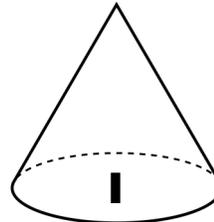
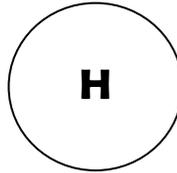
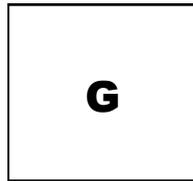
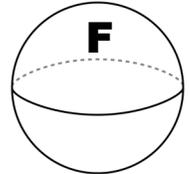
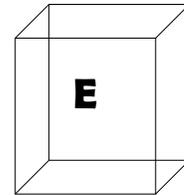
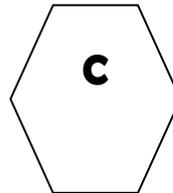
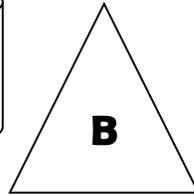
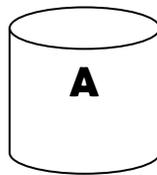
Shape

Color Wheel

Primary Colors

Secondary Colors

Tertiary Colors



Match the words below to the correct form or shape above.

___ Trapezoid

___ Hexagon

___ Triangle

___ Cone

___ Oval

___ Circle

___ Cube

___ Cylinder

___ Rectangle

___ Octagon

___ Square

___ Sphere

Color Wheel

A color wheel is a chart that shows the relationship of colors to each other. Color is one of the elements of design along with shape/form, line and texture.

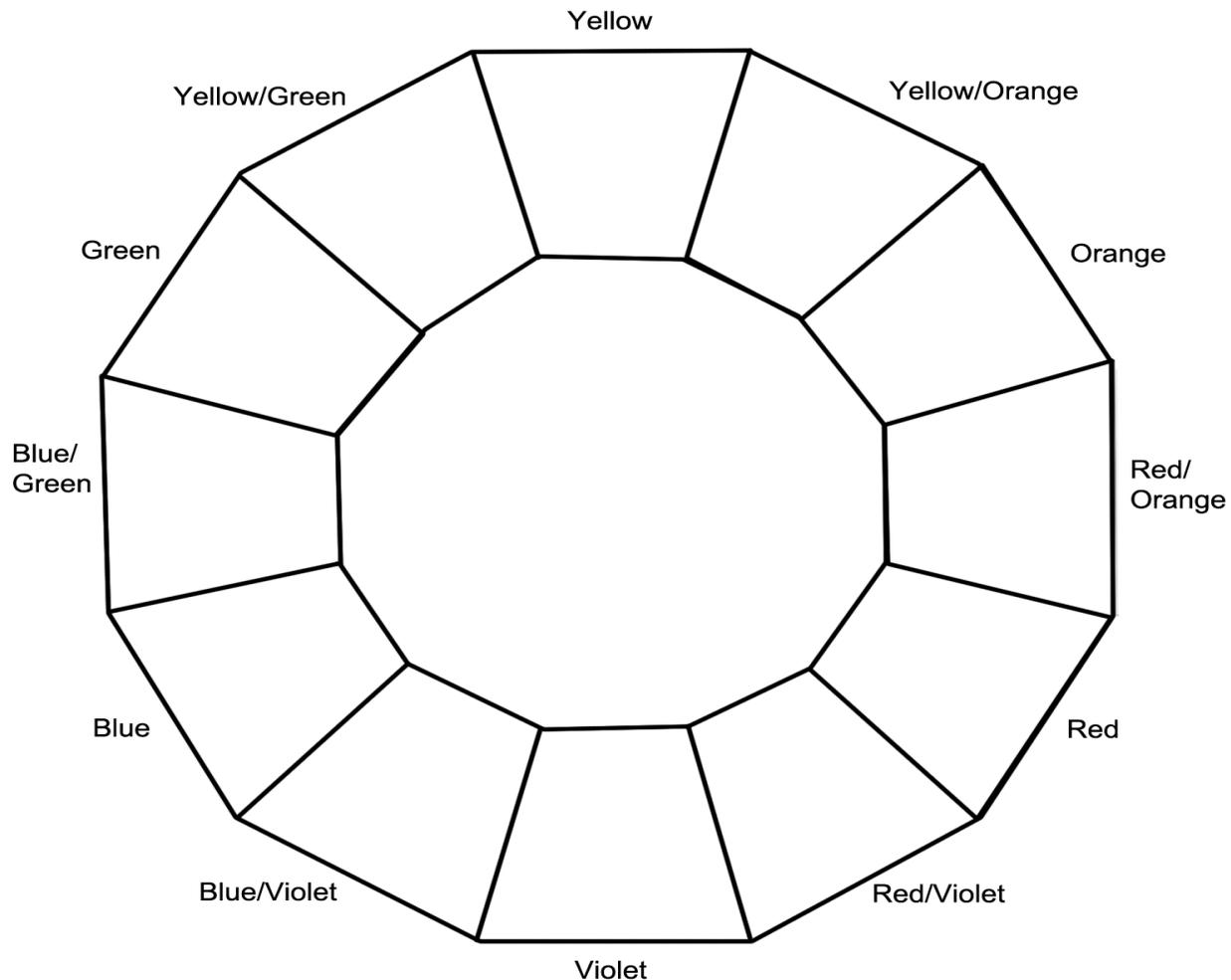
Primary Colors: Red, yellow and blue. Primary colors are the three basic colors that our eyes can see. These three colors cannot be created by combining other colors.

Secondary Colors: Orange, green and purple. These three colors are created by combining the primary colors.

Tertiary Colors: Created by combining a primary color with a secondary color.

Color Wheel Activity

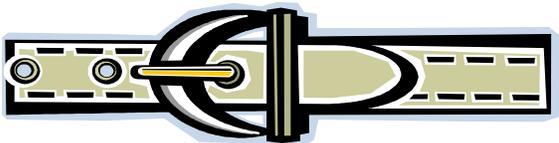
- Step 1:** Color the **3 primary colors**
- Step 2:** Color the **3 secondary colors**
- Step 3:** Color the **6 tertiary colors**



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Estimate and Measure

Directions-Estimate the length of each object to the nearest half inch; then measure the actual length of the objects using a ruler.

		Estimate	Actual
1.		<input type="text"/>	<input type="text"/>
2.		<input type="text"/>	<input type="text"/>
3.		<input type="text"/>	<input type="text"/>
4.		<input type="text"/>	<input type="text"/>
5.		<input type="text"/>	<input type="text"/>

Write the actual measurements in order from **shortest to longest**.

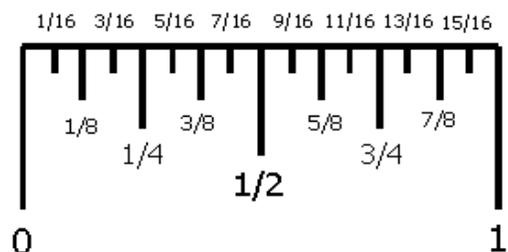
1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Writing Measurements

When writing measurements of length, you can choose to write your information in fractions or decimals. If you write in fractions, you must first understand how to read a ruler. Most rulers show English and metric measurements. If using English measurements, the ruler is broken into 16ths. Metric units are broken down into 10s.

Once you determine the correct measurement of your object, you may write your measurement in fractions or decimals. If writing in decimals, just convert your fraction to a decimal by dividing the numerator by the denominator.

Examples: $2 \frac{3}{4} = 2.75$, $5 \frac{5}{8} = 5.625$, $3 \frac{1}{8} = 3.125$

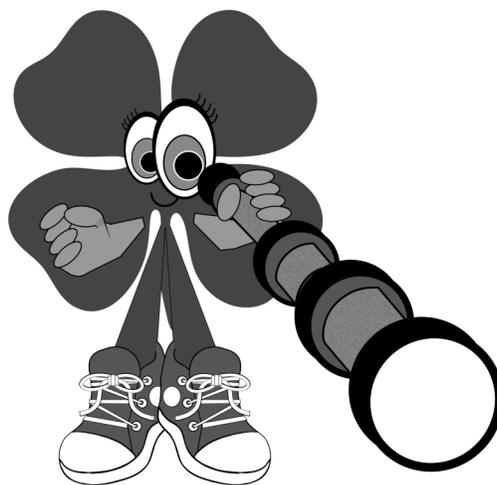


Career Exploration

Below are possible career choices in the field of Line and Design.

Fill in the missing letters to unveil the hidden word.

1. De igner
2. Pa nter
3. T acher
4. Cartoo ist
5. Wood Work ng
6. Scu ptor
7. A imator
8. ame Designer
9. Visual ffects
10. Web esigner



Combine the missing letters to form a word.

_____ & _____
 6 5 4 3 10 9 1 2 8 7

Digging Deeper:



Design a 4-H poster.

Make a collage using different shapes/forms.

Make a design using a ruler.

Related 4-H projects: Clothing, Horticulture