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Color Theory Worksheet

Hue

Hue is what distinguishes one color from another. In effect it is the generic name for the color - red, say, as opposed to blue.

Value

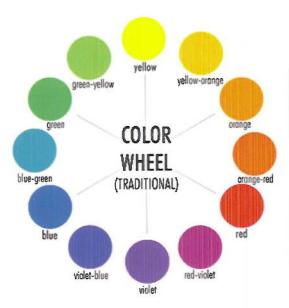
Value, or the tone, is the relative lightness or darkness of a color. A color with added white is called a <u>tint</u> and a color with added black is called a <u>shade</u>.

Blue from a light to a dark value:

The Color Wheel

The Traditional Color Wheel

The traditional color wheel is used for paints and other pigments.



Primary colors:

red blue yellow

Secondary colors: two primaries mixed together

orange (red and yellow mixed)
violet (blue and red mixed)
green (yellow and blue mixed)

Tertiary colors: a primary plus a neighboring secondary

yellow-orange
red-orange
red-violet
blue-violet
blue-green

Name:	Class:	Date:
	yellow-green	

Complementary Colors

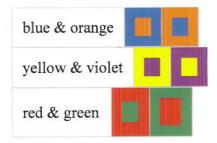
Complementary colors are two colors which sit opposite each other on the color wheel.



Color Combinations

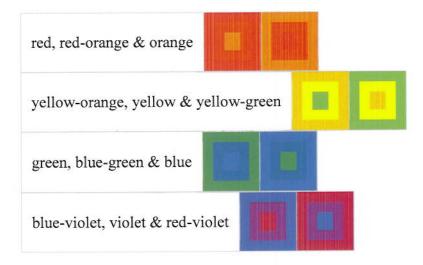
Complementary Colors

Complementary colours are often used together in a composition to create excitement. Each colour in the pair makes the other seem more vibrant.



Analogous Colours

Analogous colours are those which sit next to each other on the color wheel.



Name:	Class:	Date:

Color Theory

Tints, Shades & Neutrals

Tints, shades and neutrals are those colors which are not pure and vivid. They are created in different ways.

Tints

A **tint** is a color in which white has been added to a pure color. The more white, the lighter the tint. Tints are otherwise known as pastels.

	Yellow	Orange	Red	Violet	Blue	Green
Pure color						
Slightly tinted (a little white added)						
Heavily tinted (a lot of white added)						

Shades

A shade is a color in which black has been added to a pure color. The more black, the darker the tint.

	Yellow	Orange	Red	Violet	Blue	Green
Pure color						
Slightly shaded (a little black added)						
Heavily shaded (a lot of black added)		Banikani.	181818			

Neutrals

A **neutral** is the combination of *complementary* colors. Complementary colors are those that sit opposite each other on the <u>color wheel</u>. Neutrals are more natural colors and tend to be brownish.

	Yellow	Violet
Pure color		
Half-and-half neutral		
	Orange	Blue
Pure color		
Half-and-half neutral		
	Red	Green
Pure color		
Half-and-half neutral		

The Emotional Content of Colors

Name:	Class	Date:	
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Color Temperature

Warm Colors	Cool Colors
₩ ₩ ₩	
Red, orange and yellow are warm and visually tend to jump forward into prominence in a piece of design.	The cooler hues — green, blue, and purple — tend to recede in a design.

Text Source: Graphic Design: Foundation Course by Curtis Tappenden, Luke Jefford and Stella Farris

Color Meaning



Red is the color of fire and blood, so it is associated with energy, war, danger, strength, power, determination as well as passion, desire, and love.

Red is a very emotionally intense color. It enhances human metabolism, increases respiration rate, and raises blood pressure. It has very high visibility, which is why stop signs, stoplights, and fire equipment are usually painted red. In heraldry, red is used to indicate courage. It is a color found in many national flags.

Red brings text and images to the foreground. Use it as an accent color to stimulate people to make quick decisions; it is a perfect color for 'Buy Now' or 'Click Here' buttons on Internet banners and websites. In advertising, red is often used to evoke erotic feelings (red lips, red nails, red-light districts, 'Lady in Red', etc). Red is widely used to indicate danger (high voltage signs, traffic lights). This color is also commonly associated with energy, so you can use it when promoting energy drinks, games, cars, items related to sports and high physical activity.

Light red represents joy, sexuality, passion, sensitivity, and love.

Pink signifies romance, love, and friendship. It denotes feminine qualities and passiveness.

Dark red is associated with vigor, willpower, rage, anger, leadership, courage, longing, malice, and wrath.

Brown suggests stability and denotes masculine qualities.

Reddish-brown is associated with harvest and fall.

Orange combines the energy of red and the happiness of yellow. It is associated with joy, sunshine, and the tropics. Orange represents enthusiasm, fascination, happiness, creativity, determination, attraction, success, encouragement, and stimulation.

To the human eye, orange is a very hot color, so it gives the sensation of heat. Nevertheless, orange is not as aggressive as red. Orange increases oxygen supply to the brain, produces an invigorating effect, and stimulates mental activity. It is highly accepted among young people. As a citrus color, orange is associated with healthy food and stimulates appetite. Orange is the color of fall and harvest. In heraldry, orange is symbolic of strength and endurance.

Orange has very high visibility, so you can use it to catch attention and highlight the most important elements of your design. Orange is very effective for promoting food products and toys.

Name of	Classe	Data
Name:	Class:	Date:

Dark orange can mean deceit and distrust.

Red-orange corresponds to desire, sexual passion, pleasure, domination, aggression, and thirst for action. Gold evokes the feeling of prestige. The meaning of gold is illumination, wisdom, and wealth. Gold often symbolizes high quality.



Yellow is the color of sunshine. It's associated with joy, happiness, intellect, and energy.

Yellow produces a warming effect, arouses cheerfulness, stimulates mental activity, and generates muscle energy. Yellow is often associated with food. Bright, pure yellow is an attention getter, which is the reason taxicabs are painted this color. When overused, yellow may have a disturbing effect; it is known that babies cry more in yellow rooms. Yellow is seen before other colors when placed against black; this combination is often used to issue a warning. In heraldry, yellow indicates honor and loyalty. Later the meaning of yellow was connected with cowardice.

Use yellow to evoke pleasant, cheerful feelings. You can choose yellow to promote children's products and items related to leisure. Yellow is very effective for attracting attention, so use it to highlight the most important elements of your design. Men usually perceive yellow as a very lighthearted, 'childish' color, so it is not recommended to use yellow when selling prestigious, expensive products to men - nobody will buy a yellow business suit or a yellow Mercedes. Yellow is an unstable and spontaneous color, so avoid using yellow if you want to suggest stability and safety. Light yellow tends to disappear into white, so it usually needs a dark color to highlight it. Shades of yellow are visually unappealing because they loose cheerfulness and become dingy.

Dull (dingy) yellow represents caution, decay, sickness, and jealousy. Light yellow is associated with intellect, freshness, and joy.



Green is the color of nature. It symbolizes growth, harmony, freshness, and fertility. Green has strong emotional correspondence with safety. Dark green is also commonly associated with money.

Green has great healing power. It is the most restful color for the human eye; it can improve vision. Green suggests stability and endurance. Sometimes green denotes lack of experience; for example, a 'greenhorn' is a novice. In heraldry, green indicates growth and hope. Green, as opposed to red, means safety; it is the color of free passage in road traffic.

Use green to indicate safety when advertising drugs and medical products. Green is directly related to nature, so you can use it to promote 'green' products. Dull, darker green is commonly associated with money, the financial world, banking, and Wall Street.

Dark green is associated with ambition, greed, and jealousy. Yellow-green can indicate sickness, cowardice, discord, and jealousy. Aqua is associated with emotional healing and protection. Olive green is the traditional color of peace.



Blue is the color of the sky and sea. It is often associated with depth and stability. It symbolizes trust,

Name:		Clas	Class:		Date:		
lovalty, v	wisdom.	confidence.	intelligence,	faith, truth	and l	heaven.	

Blue is considered beneficial to the mind and body. It slows human metabolism and produces a calming effect. Blue is strongly associated with tranquility and calmness. In heraldry, blue is used to symbolize piety and sincerity.

You can use blue to promote products and services related to cleanliness (water purification filters, cleaning liquids, vodka), air and sky (airlines, airports, air conditioners), water and sea (sea voyages, mineral water). As opposed to emotionally warm colors like red, orange, and yellow; blue is linked to consciousness and intellect. Use blue to suggest precision when promoting high-tech products.

Blue is a masculine color; according to studies, it is highly accepted among males. Dark blue is associated with depth, expertise, and stability; it is a preferred color for corporate America.

Avoid using blue when promoting food and cooking, because blue suppresses appetite. When used together with warm colors like yellow or red, blue can create high-impact, vibrant designs; for example, blue-yellow-red is a perfect color scheme for a superhero.

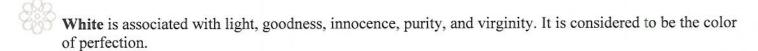
Light blue is associated with health, healing, tranquility, understanding, and softness. **Dark blue** represents knowledge, power, integrity, and seriousness.

Purple combines the stability of blue and the energy of red. Purple is associated with royalty. It symbolizes power, nobility, luxury, and ambition. It conveys wealth and extravagance. Purple is associated with wisdom, dignity, independence, creativity, mystery, and magic.

According to surveys, almost 75 percent of pre-adolescent children prefer purple to all other colors. Purple is a very rare color in nature; some people consider it to be artificial.

Light purple is a good choice for a feminine design. You can use bright purple when promoting children's products.

Light purple evokes romantic and nostalgic feelings. **Dark purple** evokes gloom and sad feelings. It can cause frustration.



White means safety, purity, and cleanliness. As opposed to black, white usually has a positive connotation. White can represent a successful beginning. In heraldry, white depicts faith and purity.

In advertising, white is associated with coolness and cleanliness because it's the color of snow. You can use white to suggest simplicity in high-tech products. White is an appropriate color for charitable organizations; angels are usually imagined wearing white clothes. White is associated with hospitals, doctors, and sterility, so you can use white to suggest safety when promoting medical products. White is often associated with low weight, low-fat food, and dairy products.

Name:	Class:	Date:	



Black is associated with power, elegance, formality, death, evil, and mystery.

Black is a mysterious color associated with fear and the unknown (black holes). It usually has a negative connotation (blacklist, black humor, 'black death'). Black denotes strength and authority; it is considered to be a very formal, elegant, and prestigious color (black tie, black Mercedes). In heraldry, black is the symbol of grief.

Black gives the feeling of perspective and depth, but a black background diminishes readability. A black suit or dress can make you look thinner. When designing for a gallery of art or photography, you can use a black or gray background to make the other colors stand out. Black contrasts well with bright colors. Combined with red or orange – other very powerful colors – black gives a very aggressive color scheme.

Name:	Class:	Date:	
Colour Theory Answer the following questions a	nd fill in the shapes	with colours to sho	w your understanding.
1. Define hue:			
2. Define value:			
3. Define secondary color.			
4. Define tertiary color.			
5. Define complementary col	ors:		
6. Define analogous colors:			
7. Define tint:			
8. Define shade:			
9. Define neutral:	ě		
10.What can be said in gener	al about warm color	s?	
11.What can be said in gener	al about cool colors	?	
Colour associations:			
12. Which color symbolizes ro	yalty?		
13. Which is the color of clean	liness?		
14. Which color symbolism fre	shness?		
15. Which colors are associate	ed with joy?		
16. Which color symbolizes pa	ssion and danger?		