

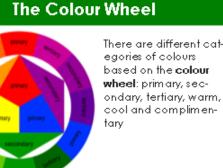
# MADANI BOYS SCHOOL YEAR 8 HALF TERM 1

# ART & DESIGN

**Tints and Shades** 

# **Key Words**

- •Media/Medium The materials and tools used by an artist to create a piece of art.
- •Technique The skill in which an artist uses tools and materials to create a piece of art.
- Abstract A piece of art which is not realistic. It uses shapes colours and textures.
- •Style The technique an artist uses to expressive their individual character of there work.
- Composition The arrangement and layout of artwork/ objects.
- Highlight The bright or reflective area within a drawing/ painting where direct light meets the surface of the obiectorperson.
- •Shadow, shade, shading The tonal and darker areas within a drawing/painting where there is less light on the object orperson.
- •Texture The feel, appearance or the tactile avality of the work of art
- •Mark making Mark making is used to create texture within a piece of art by drawing lines and patterns.
- Collage A piece of art made by using a variety of materials such as paper/ newspaper/photographs which are cut out, rearranged and glued on a surface.



Primary Colours: Red, vellow and blue

In traditional colour theory (used in paint and pigments), primary colours are the 3 piament colours that cannot be mixed or formed by any combination of other colours. All other colours are derived from these 3 hves.

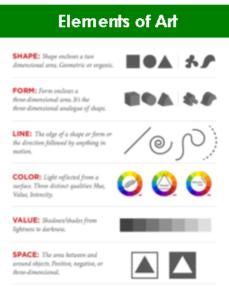
Secondary Colours: Green, orange and purple These are the colours formed by mixing the primary colouis.

Terfiary Colours: Yellow-orange, red-orange, redpurple, blue-purple, blue-green & yellow-green These are the colours formed by mixing a primary and a secondary colour. That's why the hue is a two word name, such as blue-green, red-violet, and yelloworange.

# Colour & Value

Colour is light reflected from a surface. There are 3 qualities hue, value and intensity.

Value is one of the seven elements of art. Value deals with the lightness or darkness of a colour. Since we see objects and understand objects because of how dark or light they are, value is incredible important to art.



# When dealing with pure colour (hue), value can be affected by adding white or black to a colour. Adding white to a colour produces a fint... Tints Adding black to a colour produces a shade... -Shades→

# **Shading Techniques**



TEXTURE: The surface quality of an

object that we sense through touch.



Hatching with Hatching with parallel lines is parallel lines is the same as the same as cross hatchcross hatching, except ing, except you are makvou are making all the lines ing all the lines go in the ao in the same direcsame direction. tion.



by "smudging" the applied shade. This is done by pressing andsmearina the applied graphite with your finger, a soft cloth or a "stump".

Creatina shades ries of dots. Building up more dots er results in darkershading.

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# MADANI BOYS SCHOOL YEAR 8 HALF TERM 1

# **DESIGN & TECHNOLOGY**

# **Primary & Secondary Research**

Sources of data and information fall into two categories – Primary and Secondary

**Primary data** is new data, gathered by the researcher. Sources include: interviews, focus groups, questionnaires and case studies

**Secondary data** is gathered as part of research or reporting on primary data. Sources include articles, books and magazines

### **Ergonomics & Anthropometric**

#### Ergonomics

- The science of how humans interact with objects
- Design for efficiency and comfort in the working environment

#### Anthropometrics

- Measurement of the physical properties of the human body It derives from the Greek words 'Anthropos' (human), and
- 'metron' (measure)
- Should this form primary or secondary research?

## **Anthropometrics**

Designers gather the measurements of the average individual human, looking at:

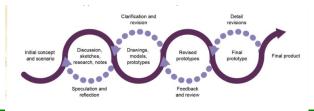
- Height, weight and length
- Angle of reach
- Viewing distance and viewing angles
- A typical example of anthropometrics looks at the correct way to sit at a desk to maintain a comfortable position
- Name two other items that have been improved by the use of anthropometrics

## **Design Brief**

- This is the conclusion of all your research and data
- A statement of intent will summarise your design plan:
- What are you going to design?
- Who is the target audience?
- Where are they going to use the product?
- What is the budget?
- When does it need to be completed?
- What size does it need to be?

### **Iterative Design**

- The iterative cycle enables the designer to refine their work in progress
- By actually making the item, designers begin to fully understand it and how successfully it works
- Many versions will fail to work as well as intended
- The outcomes, good or bad, dictate the next step With every iteration, the results improve
- Using drawings, notes and models enables designers to work through a series of ideas
- These ideas are constantly revisited and reviewed at each stage of the design process to culminate in a finished product



# **Exploded** Drawings

- An exploded drawing shows how component parts of a product are assembled
- Parts are aligned so you can clearly communicate where each part is from
- Exploded diagrams are often supplied with kit models or flat packed furniture
- Discuss how these diagrams can be useful



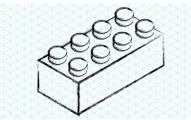
### **Design Fixation**

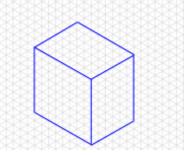
- Design fixation can negatively impact design It can limit creativity and result in similar or 'safe' design ideas
- Designers can fall into common pitfalls of:
- not properly understanding a client's needs
- failing to consider alternative solutions
  lack of research into new materials or technology
- What strategies would you suggest designers utilise to keep their ideas fresh?

### **Isometric Projection**

Isometric drawings shows three faces of an object
Lines leading away are all parallel instead of narrowing, towards a vanishing pointwhich can create slight distortion

Isometric grid paper can be a helpful guide when drawing in isometric projection





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