

# Colour Theory

## Homework sheets

Use the Colour Theory booklet or the Leckie & Leckie National 4/5 Course Notes (Pages 142-145) to help answer the following questions.

## Homework 1

1 A prism is used to split a light beam into seven different colours. What is the name given to these seven colours? 1

2 In the table below and in the correct order, neatly fill in the boxes with the colours of the spectrum. 3

--	--	--	--	--	--	--

3 To remember the colour range on the spectrum, what mnemonic can be used? 3

4 What is a pigment; give an example to help with your answer. 1

5 In what two distinct ways can colour be mixed? 2

6 When will an object **reflect** all light? 1

Total 11 Marks

## Homework 2

- |    |  |   |
|----|--|---|
| 1  | What is a tertiary colour?   | 2 |
| 2  | Name the six tertiary colours.   | 6 |
| 3  | Briefly explain what is meant by the term <b>Hue</b> .   | 2 |
| 4  | Briefly explain what is meant by the term <b>Saturation</b> .  | 2 |
| 5  | Briefly explain what is meant by the term <b>Tone</b> .  | 2 |
| 6  | Explain the difference between <b>Tint</b> and <b>Shade</b> .  | 2 |
| 7  | Briefly explain why colour choice is so important.   | 2 |
| 8  | Briefly explain what is meant by the term <b>Monochromatic</b> when dealing with colour arrangements.    | 2 |
| 9  | Briefly explain what is meant by the term <b>Contrast harmony</b> when dealing with colour arrangements. | 2 |
| 10 | Briefly explain what is meant by the term <b>Achromatic</b> when dealing with colour arrangements.       | 2 |

Total 24 marks

## Homework 3

- 1 Complete the following.
- |                       |   |
|-----------------------|---|
| Blue + Yellow = _____ | 1 |
| Red + Yellow = _____  | 1 |
| Red + Blue = _____    | 1 |
- What are the resulting colours categorised as? 1
- 2 Green, blue/green and blue are colours found on the colour wheel. What can a group of such related colours be called? 2
- 3 Different colours portray different moods. For the colours listed below, write down against each, **three** possible moods.
- |              |   |
|--------------|---|
| Black _____  | 3 |
| Red _____    | 3 |
| Yellow _____ | 3 |
- 4 What is meant by the term **receding colour**? 2
- 5 What is meant by the term **advancing colour**? 2
- 6 There are six commonly used categories of safety signs. Name each of the categories. 6
- 7 For each of the signs shown above give a brief explanation of its purpose. 12

Total 37 Marks

## Homework 4

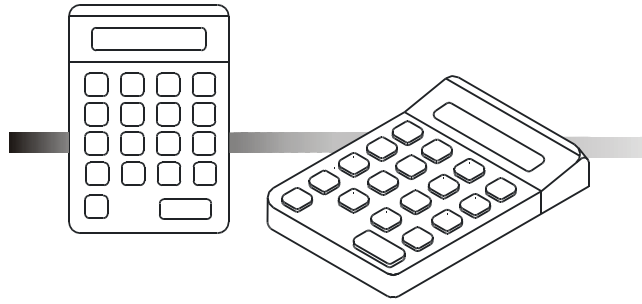
- 1 Name 2 receding colours. 2
- 2 Name 2 advancing colours. 2
- 3 Name 2 cold colours. 2
- 4 Name 2 warm colours. 2
- 5 An interior designer used standard colour theory for the colour scheme in a new toy store. Copy and complete the following table 5

Area	Colour	Reason for choice
Interior walls	Yellow	
Checkout chairs and display cabinet	Red	
Worktops at tills		To be in harmony with the walls
Floors		To be in contrast with the walls
First aid room signs and doors		Associated with safety

- :
- 6 Describe the effect created by the colour scheme chosen for this store. 1
  - 7 State whether the walls are an advancing or receding colour. 1
  - 8 Describe how continual use of the two same colours in the toy store logo and in all promotional material relating to the toy store are an advantage to the company. 1
  - 9 State the term used to describe the gradual change that occurs when a flat colour changes from a light to dark version. 1

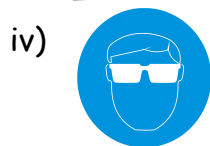
Total 17 Marks

## Homework 5



The colour scheme is very important when marketing a new product.  
With reference to the calculator above.

- 1 State the impression created by the following colour schemes. 1  
Red casing, yellow buttons and red trim.
- 2 State the impression created by the following colour schemes. 1  
Grey casing, silver buttons and silver trim.
- 3 The calculator has to be packaged in a cardboard box.
  - i) State a background colour which represents reliability. 1
  - ii) State the text colour which contrasts with the background colour. 1
  - iii) State a border colour which harmonises with the background colour. 1
- 4 State **one** purpose of the flash bar in the promotional graphics shown above. 1
- 5 When producing the promotional graphic, a receding colour was chosen for the background. State **one** possible reason for this. 1
- 6 For each of the signs below, name the type of sign and the background colour. 12



Total 19 Marks

## Homework 6

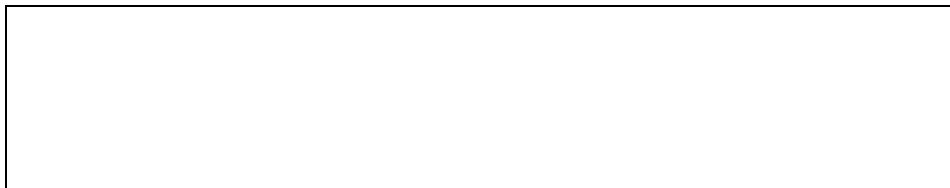
You should use sketches and colour to help you answer the following questions.

- |   |  |   |
|---|--|---|
| 1 | What are the three primary colours?  | 3 |
| 2 | Which of these primary colours are mixed to give the following secondary colours?                |   |
|   | Orange - _____ and _____   | 2 |
|   | Violet - _____ and _____   | 2 |
|   | Green - _____ and _____  | 2 |
| 3 | What is a tertiary colour?   | 1 |
| 4 | Write a definition of each of the following terms. Give examples of 2 suitable colours for each. |   |
|   | Harmonising colours  | 3 |
|   | Contrasting colours  | 3 |
|   | Advancing colours  | 3 |
|   | Receding colours   | 3 |

Total 22 Marks

## Homework 7

- |   |   |   |
|---|---|---|
| 1 | Give 2 examples of warm colours.        | 2 |
| 2 | Where can warm colours be used and why? | 2 |
| 3 | Give 2 examples of cold colours.        | 2 |
| 4 | Where can cold colours be used and why? | 2 |
| 5 | How do we add tone to a colour?         | 1 |
| 6 | Complete the tonal bar below.           | 2 |



- |   |  |   |
|---|--|---|
| 7 | What is a highlight and what is it used to show? | 2 |
| 8 | How do we add tints and shades to a colour?      | 1 |
|   | To add a tint to a colour you have to _____      | 1 |
|   | To add a shade to a colour you have to _____     | 1 |

Total 16 Marks

## Homework 8

- 1 Name two different 'feels' or emotions conveyed by the following colours?

Red	2
Yellow	2
Blue	2
Green	2
Violet	2
Orange	2
Greys	2
Browns	2
Black & White	2

- 2 A doctor's surgery is looking to choose a colour for the walls of the waiting room. Suggest a suitable colour and give reasons for your choice. 3
- 3 A toy company is developing a shape toy for 1-3 year old children. What colours would be suitable to use and why? 3
- 4 An environmental company called Haven are looking to re-launch themselves. Using some of the DTP elements and principles and the knowledge of colour theory you have gained, design a business card for them in the space below. State reasons for your choice of colours. 4



Total 28 Marks

## Homework 9

Colour can be used for many different reasons.

- |   |  |   |
|---|--|---|
| 1 | State what is added to red to make it a shade or red?  | 1 |
| 2 | State what is added to red to make it a tint of red?   | 1 |
| 3 | State two tertiary colours that contain blue.  | 2 |
| 4 | State what colour must be added to a primary colour in order to obtain a tertiary colour.                          | 1 |
| 5 | Colours can be used to create different moods and feelings.<br>State what colour is associated with the following: |   |
|   | To represent happiness.  | 1 |
|   | To represent that something is cool.   | 1 |
|   | To represent something that is safe for the environment.   | 1 |
|   | To represent that something is dangerous.  | 1 |
| 6 | State the effect created by using a receding colour for the background of a presentation drawing.                  | 1 |
| 7 | Explain what the term "advancing colour" means.  | 1 |

Total 11 Marks