

Greenfaulds High School

Technical Department



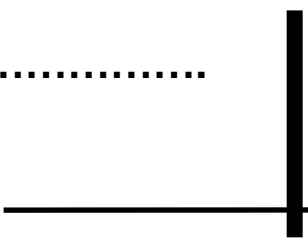
Knowledge & Interpretation

Colour Theory

Workbook

Name.....

Class



Read the questions and insert the answers in the space provided below.

Task 1

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

Answer _____ 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

Answer _____

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

Answer _____ 1

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

Answer _____
_____ 2

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

Answer _____ 1

7. When will an object **absorb** all light? 1

Answer _____

8. What is a primary colour? 2

Answer _____

9. Name the three primary colours. 3

Answer _____

10. What is a colour wheel and what is it's purpose? 3

Answer _____

11. What is a secondary colour? 2

Answer _____

12. Name the three secondary colours. 3

Answer _____

Total 22 marks

Parents Signature _____

Task 2

1. What is a tertiary colour? 2

Answer _____

2. Name the six tertiary colours. 6

Answer _____

3. Briefly explain what is meant by the term **Hue**. 2

Answer _____

4. Briefly explain what is meant by the term **Saturation**. 2

Answer _____

5. Briefly explain what is meant by the term **Tone**. 2

Answer _____

6. Explain the difference between **Tint** and **Shade**. 2

Answer _____

9. Briefly explain why colour choice is so important. (Answer on Page 14)

Answer _____

2

10. Briefly explain what is meant by the term **Monochromatic** when dealing with colour arrangements. 2

Answer _____

11. Briefly explain what is meant by the term **Contrast harmony** when dealing with colour arrangements. 2

Answer _____

12. Briefly explain what is meant by the term **Achromatic** when dealing with colour arrangements. 2

Answer _____

Total 27 marks

Parents Signature_____

Task 3

1. Complete the following.

Blue + Yellow = _ _ _ _ _

Red + Yellow = _ _ _ _ _

Red + Blue = _ _ _ _ _

What are the resulting colours categorised as? 4

Answer _ _ _ _ _

4. Green, blue/green and blue are colours found on the colour wheel.
What can a group of such related colours be called? 2

Answer _ _ _ _ _

5. Different colours portray different moods. For the colours listed below, write down against each, three possible moods.

Black _ _ _ _ _

Red _ _ _ _ _

Yellow _ _ _ _ _ 9

6. What is meant by the term **receding colour**. 2

Answer _ _ _ _ _
_ _ _ _ _

7. What is meant by the term **advancing colour**. 2

Answer _____

8. There are six commonly used categories of safety signs. Name each of the categories in the space below. 6

Answer _____ Answer _____

Answer _____ Answer _____

Answer _____ Answer _____

9. For each of the signs shown above give a brief explanation of it's purpose.

Answer _____ 2

Answer _____ 2

Answer _____ 2

Answer _____ 2

Answer _____ 2

Parents Signature _____

Total 15 Marks

Task 4

1. Name 2 receding colours. 2

Answer _____

2. Name 2 advancing colours. 2

Answer _____

3. Name 2 cold colours. 2

Answer _____

4. Name 2 warm colours. 2

Answer _____

5. An interior designer used standard colour theory for the colour scheme in a new toy store. Complete the following table by filling in the blanks: 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.

Effect ----- 1

7. State whether the walls are an advancing or receding colour.

Answer ----- 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.

Description -----
----- 1

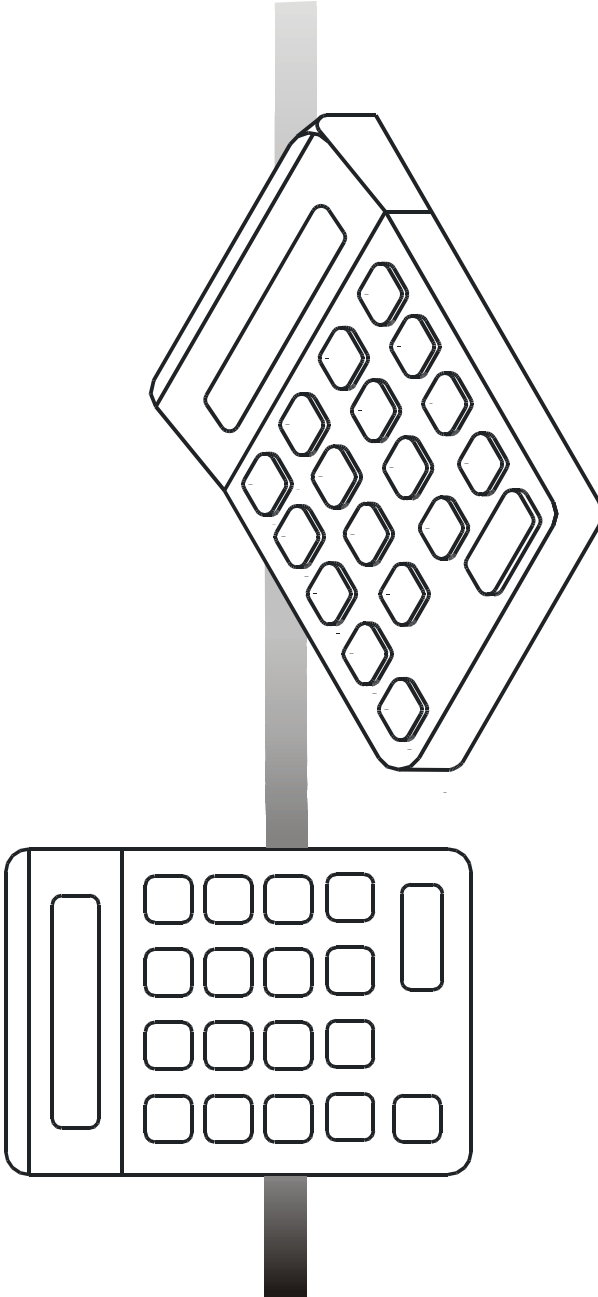
9. State the term used to describe the gradual change that occurs when a flat colour changes from a light to dark version.

Term ----- 1

Parents Signature_____

Total 17 Marks

Task 5



Promotional

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

1. State the impression created by the following colour schemes.

(i) Red casing, yellow buttons and red trim.

1

Impression _____

2. State the impression created by the following colour schemes.

(i) Grey casing, silver buttons and silver trim.

1

Impression _____

3. The calculator has to be packaged in a cardboard box.

(i) State a background colour which represents reliability.

1

Colour _____

ii) State the text colour which contrasts with the background colour.

1

Colour _____

iii) State a border colour which harmonises with the background colour.

1

Colour _____

4. State **one** purpose of the flash bar in the promotional graphics shown opposite.

1

Reason _____

5. When producing the promotional graphic, a receding colour was chosen for the background. State **one** possible reason for this.

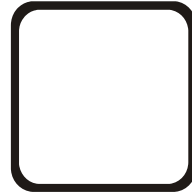
1

Reason _____



Type of Sign _____ Type of Sign _____

Background Colour _____ Background Colour _____



Type of Sign _____ Type of Sign _____

Background Colour _____ Background Colour _____



Type of Sign _____ Type of Sign _____

Background Colour _____ Background Colour _____

Parents Signature _____

Marks 12