

# ***The Ambassadors College, Ota***

**GRADE 8 (Honours)**

**Second Term**

**Mid - Term Holiday Assignment**

**HOLIDAY ASSIGNMENT**

**2025/2026 Academic Session**

**Name:** \_\_\_\_\_

## MATHEMATICS

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1. Convert  $3124_5$  to a number in base 3
2. How many degrees are there in  $4\frac{3}{4}$  revolutions?
3. A person standing on the bank of a river observes that the angle of elevation of the top of a tree
4. on the opposite bank is  $60^\circ$ . When he moves 20 meters away from the bank, the angle of elevation becomes  $30^\circ$ . What is the height of the tree?

Make  $m$  the subject of the relation  $k = \sqrt{\frac{m-y}{m+1}}$

## ENGLISH LANGUAGE

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Carefully read the instructions and attempt the following questions in your Cambridge Lower Secondary English Workbook 8 by Graham Elsdon.

Pages 42 -43, Chapter 4.2 - Phone Problems, Focus 1 and Practice 2.

Pages 62 - 64, Chapter 5 - Heroes, 5.1(Defining heroes), Focus 1, Practice 2 and Challenge 3.

## BASIC SCIENCE

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### **BIOLOGY**

Cambridge Science Learner's Workbook, page 72, Exercise 4.2A

### **CHEMISTRY**

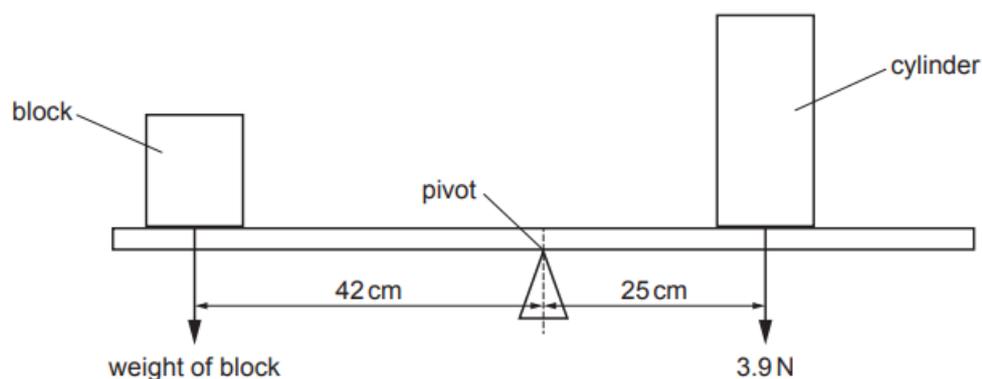
Cambridge Science workbook8, page 159-160

## Mid – Term Holiday Assignment

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### **PHYSICS**

- Define the term “Dispersion” as it applies to light
- List the spectra of white light in the increasing order of their frequency
- Arinze balances a beam on a pivot. On the beam, he positions the cylinder and a block so that the beams remains balanced. The arrangement is shown in Fig. 6 below



Calculate the weight of the block.

## **BASIC TECHNOLOGY**

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- Mention the three types of drive mechanism.
- Define a gear
- List 5 types of gear
- State the formula to calculate gear ratio.

### **BUSINESS STUDIES**

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Enter the following transactions in a three-column cash book and bring down the balances.

		₦
Feb 2	Cash in hand	1,025
	Cash at bank	3,500
6	Cash sales	1,000
9	Received cheque from Fola	₦ 3000
	Less 8 % discount	
14	Paid Mary by cheque	₦ 1,000 less
	5 % discount	
20	Paid postage expenses by cash	100
25	Drew ₦ 500 from the bank for office uses	

### **NATIONAL VALUE EDUCATION**

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1. Define communication.
2. Explain two (2) types of modern communication.