The Ambassadors College, Ota

GRADE 8 (Honours)

Second Term Holiday Assignment



2023/2024 Academic Session

Name:		
Manic.		

HOLIDAY ASSIGNMENT (Honours)

MATHEMATICS

1. a. Factorise completely

i.
$$4a^2 - 2bc + 4ac - b^2$$

ii.
$$81x^2 - 49b^2$$

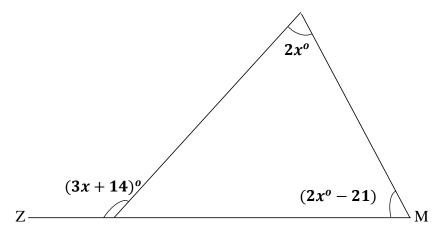
b. Factorise completely, hence find the zeros of the quadratic equations

i.
$$4a^2 + 2a = 12$$

ii.
$$(x-4)^2 = 9$$

iii.
$$6y^2 = y + 1$$

- 2. a. Simplify $1.7 \times 10^4 + 6.9 \times 10^2 9.73 \times 10^{-1} \div 5 \times 10^{-3}$
 - b. In the diagram below, ZM is a straight line. Calculate the value of x



c. Simplify $\frac{x^2 + xy}{x^2 - 2xy + y^2}$

ENGLISH LANGUAGE

Checkpoint Workbook, Unit 4.

HOLIDAY ASSIGNMENT (Honours)

BASIC SCIENCE

BIOLOGY

Cambridge Lower Secondary Science Learner's Book 8, Page 153 – 158. (Exercise 7.4A – 7.4C).

CHEMISTRY

Cambridge Lower Secondary Science Learner's Book 8, Page 23 – 24 (Exercise 2.1C & 2.2A).

PHYSICS

Cambridge Lower Secondary Science Learner's Book 8, Page 229 – 232, (Question 6.1 – 6.14).

BASIC TECHNOLOGY

- 1. a. State any three (3) properties of a Trapezoid.
 - b. Differentiate between a Concave Polygon and a Convex Polygon.
- 2. Using general method, construct a hexagon of sides 45mm.
- 3. State any two (2) differences between a Pump and a Turbine.

BUSINESS STUDIES

- 1. What is Office Procedure?
- 2. State any five (5) importance of office procedure.
- 3. Differentiate between a store and a warehouse.

HOLIDAY ASSIGNMENT (Honours)

NATIONAL VALUE EDUCATION

- 1. Define Constitution.
- 2. Explain four (4) types of constitution.
- 3. State four (4) importance of constitution.