Mathematics

GRADE 10 MATHEMATICS

3RD Term (2019/2020)
TEACHERS: Miss D. Wilkins, Miss S. Thomas, Mrs. D. Richards, Mr. A. Morgan, Mr. M. Ross, Mr. R. Prince
Teacher:

TOPIC	Required Tools	OBJECTIVES	Projected SCHEDULE	COURSE WORK
1. Matrices (Finish up matrices)		Students should be able to : • Multiply two matrices. • Recognize that matrix multiplication is not commutative. • Use matrices to solve simple problem in geometry • Calculate the determinant of a 2 × 2 matrix. • Identify 2 × 2 singular matrix. • Obtain the inverse of a non-singular 2 × 2 matrix. • Use matrices to solve simple problem in algebra	**Apr 22 – May 1** (8 days)	**Non-graded Assessment type:** Homework, Classwork, worksheet, **Graded Assessment type:** Quiz, Test
2. Area And Volume **Review** **Area and**	Assigned textbook, Supplementary textbooks, worksheets	At the end of this topic students should be able to: • Identify prisms, pyramids and spheres • Calculate the surface area of a simple right prism, a pyramid, and a sphere. • Calculate the volume of a simple right prism, a pyramid and a sphere.	**May 4 – May 15** (2 week)	**Non-graded Assessment type:** Homework, Classwork, worksheet, **Graded Assessment type:**

Circumference of circle, area and Perimeter of plane shapes		• Calculate the volume and surface area of composite solids.		Quiz Test
3. Indices		At the end of this topic students should be able to: Students should be able to : 1. Use laws of indices to manipulate algebraic expressions involving integral and rational indices. 2. Apply the laws of indices in the solution of equations	**May 18 – May 29** (2 week)	**Non-graded Assessment type:** Homework, Classwork, worksheet, **Graded Assessment type:** Quiz Test
4. <u>Consumer Arithmetic</u>	Assigned textbook, Supplementary textbooks, worksheets	At the end of this topic students should be able to: • use simple interest formula to calculate simple interest, principal, time rate or amount. • calculate compound interest, appreciation and depreciation (for not more than 3 periods) • calculate returns on different types of investments. • solve problems involving simple interest, compound interest, appreciation and depreciation. •	**Jun 1 – Jun 12** (2 week)	**Non-graded Assessment type:** Homework, Classwork, worksheet, **Graded Assessment type:** Quiz Test

6. <u>Similar Shapes</u>	Assigned textbook, Supplementary textbooks, worksheets	Students should be able to : • List the properties of similar shapes. • Distinguish between similarity and congruency • Prove that given shapes are similar • Solve triangles using the concept of similar shapes Calculate scale factor of similar shapes.	**Jun 15 – Jun 26** (2 week)	**Non-graded Assessment type:** Homework, Classwork, worksheet, **Graded Assessment type:** Quiz Test