**MATHEMATICS SCHEMES OF WORK FORM 4**

**TERM 2**

|  |  |  |  |  |  |  |  |  |
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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L AIDS** | **REFERENCE** | **REM** |
| 1 | 1 | Trigonometry  | Deriving the relation Sin2 0 + Cos2 0 = 1  | By the end of the lesson, the learner should be able to: Derive trigonometric identitySin2 0 + Cos2 0 = 1  | Practice exerciseAdvancing BK 4, Ex. 4.1Ex 4.2, Ex 4.3  | Charts illustrating theunit circle and right  | - K.M, Advancing inMath F4 Pg 59-64   |  |
| 2 | Trigonometry  | Trigonometric ratios of the form y = sin x y = tan x y = cos x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios ofthe form y = sin xy = tan xy = cos x  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4 and 4.5Patel BK 4, Ex. 4.2  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-64- KLB Bk4 Pg 96-99   |  |
| 3 | Trigonometry  | Trigonometric ratios of the form y = sin x y = tan x y = cos x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios ofthe form y = sin xy = tan xy = cos x  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4 and 4.5Patel BK 4, Ex. 4.2  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-64- KLB Bk4 Pg 96-99   |  |
| 4 | Trigonometry  | Trigonometric ratios of the form y = sin x y = tan x y = cos x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios ofthe form y = sin xy = tan xy = cos x  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4 and 4.5Patel BK 4, Ex. 4.2  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-64- KLB Bk4 Pg 96-99   |  |
| 5 | Trigonometry  | Graphs of Trigonometric relations y = a sin x y = a cos x y = a tan x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric relationsy = sin xy = cos x y = tan x  | Drawing graphs KLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4Patel BK 4, Ex. 4.3  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-63- KLB Bk4 Pg 96-99   |  |
| 6 | Trigonometry  | Graphs of Trigonometric relations y = a sin x y = a cos x y = a tan x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric relationsy = sin xy = cos x y = tan x  | Drawing graphs KLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4Patel BK 4, Ex. 4.3  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-63- KLB Bk4 Pg 96-99   |  |
| 7 | Trigonometry  | Graphs of Trigonometric relations y = a sin x y = a cos x y = a tan x  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric relationsy = sin xy = cos x y = tan x  | Drawing graphs KLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.4Patel BK 4, Ex. 4.3  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-63- KLB Bk4 Pg 96-99   |  |
| 2 | 1 | Trigonometry  | Simple trigonometric equations, amplitudes, period, wavelength and phase angle of trigonometric function  | By the end of the lesson, the learner should be able to: Deduce from the graphsy = sin xy = tan xy = cos xThe amplitude, wavelength and phaseangle  | Practice exercise  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 59-63   |  |
| 2 | Trigonometry  | Simple trigonometric equations, amplitudes, period, wavelength and phase angle of trigonometric function  | By the end of the lesson, the learner should be able to: Deduce from the graphsy = sin xy = tan xy = cos xThe amplitude, wavelength and phaseangle  | Practice exercise  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 59-63   |  |
| 3 | Trigonometry  | Simple trigonometric equations, amplitudes, period, wavelength and phase angle of trigonometric function  | By the end of the lesson, the learner should be able to: Deduce from the graphsy = sin xy = tan xy = cos xThe amplitude, wavelength and phaseangle  | Practice exercise  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 59-63   |  |
| 4 | Trigonometry  | Trigonometry y = a sin (bx + 0)  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios of the form y = a sin (bx + 0)  | Drawing graphs  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 60   |  |
| 5 | Trigonometry  | Trigonometry y = a cos (bx + 0) y = a tan (bx + 0)  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios ofthe form y = a cos (bx + 0)y = a tan (bx + 0)  | Drawing graphs  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-64  |  |
| 6 | Trigonometry  | Trigonometry y = a cos (bx + 0) y = a tan (bx + 0)  | By the end of the lesson, the learner should be able to: Draw graphs of trigonometric ratios ofthe form y = a cos (bx + 0)y = a tan (bx + 0)  | Drawing graphs  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 59-64  |  |
| 7 | Trigonometry  | Amplitude, period, wavelength and phase Phase angles of trigonometric function  | By the end of the lesson, the learner should be able to: Deduce the graphs y = a sin (bx + 0)y = a cos (bx + 0)y = a tan (bx + 0)  | Practice exercise  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 59-64   |  |
| 3 | 1 | Trigonometry  | Solution to simple Trigonometric equations  | By the end of the lesson, the learner should be able to: Solve simple trigonometric equationsanalytically and graphically  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.6Patel BK 4, Ex. 4.4  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 65-67- KLB BK 4 Pg 100-102   |  |
| 2 | Trigonometry  | Solution to simple Trigonometric equations  | By the end of the lesson, the learner should be able to: Solve simple trigonometric equationsanalytically and graphically  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.6Patel BK 4, Ex. 4.4  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 65-67- KLB BK 4 Pg 100-102   |  |
| 3 | Trigonometry  | Solution to simple Trigonometric equations  | By the end of the lesson, the learner should be able to: Solve simple trigonometric equationsanalytically and graphically  | Practice exerciseKLB Pg 4, Ex. 4.3Advancing BK 4, Ex. 4.6Patel BK 4, Ex. 4.4  | Trigonometric relationsGraphs  | - K.M, Advancing inMath F4 Pg 65-67- KLB BK 4 Pg 100-102   |  |
| 4 | Three Dimensional Geometry  | Geometrical properties of common solids  | By the end of the lesson, the learner should be able to: State the geometric properties of common solids? Education Plus Agencies  | Practice exerciseAdvancing BK 4, Ex. 5.1KLB Pg 4, Ex. 5.1  | 3-D models  | - K.M, Advancing inMath F4 Pg 72-73- KLB BK 4 Pg 104-106   |  |
| 5 | Three Dimensional Geometry  | Geometrical properties of common solids  | By the end of the lesson, the learner should be able to: State the geometric properties of common solids? Education Plus Agencies  | Practice exerciseAdvancing BK 4, Ex. 5.1KLB Pg 4, Ex. 5.1  | 3-D models  | - K.M, Advancing inMath F4 Pg 72-73- KLB BK 4 Pg 104-106   |  |
| 6 | Three Dimensional Geometry  | Skew lines projection of a line onto a plane  | By the end of the lesson, the learner should be able to: Identify projection of a line onto a Plane  | Practice exerciseAdvancing BK 4, Ex. 5.1KLB Pg 4, Ex. 5.2  | 3-D models  | - K.M, Advancing inMath F4 Pg 73- KLB BK 4 Pg 118-119   |  |
| 7 | Three Dimensional Geometry  | Length of a line in 3D geometry  | By the end of the lesson, the learner should be able to: Calculate the length between two pointsin 3D geometry  | Practice exerciseAdvancing BK 4, Ex. 5.4  | 3-D models  | - K.M, Advancing inMath F4 Pg 78-80   |  |
| 4 | 1 | Three Dimensional Geometry  | Angle between a line and a line  | By the end of the lesson, the learner should be able to: Identify and calculate the angle betweena line and a line  | Practice exerciseAdvancing BK 4, Ex. 5.4  | 3-D models  | - K.M, Advancing inMath F4 Pg 77-80  |  |
| 2 | Three Dimensional Geometry  | Angle between a line and a line  | By the end of the lesson, the learner should be able to: Identify and calculate the angle betweena line and a line  | Practice exerciseAdvancing BK 4, Ex. 5.4  | 3-D models  | - K.M, Advancing inMath F4 Pg 77-80  |  |
| 3 | Three Dimensional Geometry  | A line and a plane  | By the end of the lesson, the learner should be able to: Identify and calculate the angle betweena line and a plane  | Practice exerciseAdvancing BK 4, Ex. 5.3 and 5.4KLB Pg 4, Ex. 5.1  | 3-D models  | - K.M, Advancing inMath F4 Pg 78-80- KLB BK 4 Pg 106-109   |  |
| 4 | Three Dimensional Geometry  | A plane and a plane  | By the end of the lesson, the learner should be able to: Identify and calculate the anglebetween a line and a plane  | Practice exerciseAdvancing BK 4, Ex. 5.4KLB Pg 4, Ex. 5.2  | 3-D models  | - K.M, Advancing inMath F4 Pg 78-80- KLB BK 4 Pg 113-118   |  |
| 5 | Three Dimensional Geometry  | A plane and a plane  | By the end of the lesson, the learner should be able to: Identify and calculate the anglebetween a line and a plane  | Practice exerciseAdvancing BK 4, Ex. 5.4KLB Pg 4, Ex. 5.2  | 3-D models  | - K.M, Advancing inMath F4 Pg 78-80- KLB BK 4 Pg 113-118   |  |
| 6 | Three Dimensional Geometry  | Angles between skew lines  | By the end of the lesson, the learner should be able to: Identify and calculate the angle between skew lines  | Practice exerciseAdvancing BK 4, Ex. 5.4KLB Pg 4, Ex. 5.2  | 3-D models  | - K.M, Advancing inMath F4 Pg 78-80- KLB BK 4 Pg 118-119   |  |
| 7 | Longitudes and Latitudes  | Latitudes and longitudes (great and small circle)  | By the end of the lesson, the learner should be able to: Define the great and small circle in relation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 81-83- KLB BK 4 Pg 125-126   |  |
| 5 | 1 | Longitudes and Latitudes  | The equator and Greenwich meridian  | By the end of the lesson, the learner should be able to: Define the great and small circle inrelation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 83- KLB BK 4 Pg 126-127   |  |
| 2 | Longitudes and Latitudes  | The equator and Greenwich meridian  | By the end of the lesson, the learner should be able to: Define the great and small circle inrelation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 83- KLB BK 4 Pg 126-127   |  |
| 3 | Longitudes and Latitudes  | The equator and Greenwich meridian  | By the end of the lesson, the learner should be able to: Define the great and small circle inrelation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 83- KLB BK 4 Pg 126-127   |  |
| 4 | Longitudes and Latitudes  | The equator and Greenwich meridian  | By the end of the lesson, the learner should be able to: Define the great and small circle inrelation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 83- KLB BK 4 Pg 126-127   |  |
| 5 | Longitudes and Latitudes  | The equator and Greenwich meridian  | By the end of the lesson, the learner should be able to: Define the great and small circle inrelation to a sphere (including the earth)  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 83- KLB BK 4 Pg 126-127   |  |
| 6 | Longitudes and Latitudes  | Longitudes and Latitudes Position of a place on the surface of the earth  | By the end of the lesson, the learner should be able to: Locate a place on the earth?s surface interms of latitude and longitude  | Practice exerciseAdvancing BK 4, Ex. 6.2KLB Pg 4, Ex. 6.1  | GlobeBall  | - K.M, Advancing inMath F4 Pg 86- KLB BK 4 Pg 128-129   |  |
| 7 | Longitudes and Latitudes  | Radii of small and great circles  | By the end of the lesson, the learner should be able to: Establish the relationship between theradii of small and great circles  | Practice exerciseAdvancing BK 4, Ex. 6.4KLB Pg 4, Ex. 6.2  | GlobeBall  | - K.M, Advancing inMath F4 Pg 89- KLB BK 4 Pg 133-134   |  |
| 6 | 1 | Longitudes and Latitudes  | Distance between two points along the small and great circle in nautical miles and kilometres  | By the end of the lesson, the learner should be able to: Calculate the distance between twopoints along the great circles and smallcircles (longitudes and latitudes) innautical miles (nm) and kilometres (km)  | Practice exerciseAdvancing BK 4, Ex. 6.4KLB Pg 4, Ex. 6.2  | GlobeBall  | - K.M, Advancing inMath F4 Pg 87-90- KLB BK 4 Pg 130-139   |  |
| 2 | Longitudes and Latitudes  | Distance between two points along the small and great circle in nautical miles and kilometres  | By the end of the lesson, the learner should be able to: Calculate the distance between twopoints along the great circles and smallcircles (longitudes and latitudes) innautical miles (nm) and kilometres (km)  | Practice exerciseAdvancing BK 4, Ex. 6.4KLB Pg 4, Ex. 6.2  | GlobeBall  | - K.M, Advancing inMath F4 Pg 87-90- KLB BK 4 Pg 130-139   |  |
| 3 | Longitudes and Latitudes  | Distance in nautical miles and kilometers along a circle of latitude  | By the end of the lesson, the learner should be able to: Calculate the distance in nautical milesand kilometers along a circle of latitude  | Practice exerciseAdvancing BK 4, Ex. 6.5KLB Pg 4, Ex. 6.3  | GlobeBall Calculators  | - K.M, Advancing inMath F4 Pg 87-98- KLB BK 4 Pg 130-133   |  |
| 4 | Longitudes and Latitudes  | Distance in nautical miles and kilometers along a circle of latitude  | By the end of the lesson, the learner should be able to: Calculate the distance in nautical milesand kilometers along a circle of latitude  | Practice exerciseAdvancing BK 4, Ex. 6.5KLB Pg 4, Ex. 6.3  | GlobeBall Calculators  | - K.M, Advancing inMath F4 Pg 87-98- KLB BK 4 Pg 130-133   |  |
| 5 | Longitudes and Latitudes  | Distance in nautical miles and kilometers along a circle of latitude  | By the end of the lesson, the learner should be able to: Calculate the distance in nautical milesand kilometers along a circle of latitude  | Practice exerciseAdvancing BK 4, Ex. 6.5KLB Pg 4, Ex. 6.3  | GlobeBall Calculators  | - K.M, Advancing inMath F4 Pg 87-98- KLB BK 4 Pg 130-133   |  |
| 6 | Longitudes and Latitudes  | Time and longitude  | By the end of the lesson, the learner should be able to: Calculate time in relation to kilometersper hour  | Practice exerciseAdvancing BK 4, Ex. 6.5KLB Pg 4, Ex. 6.3  | GlobeBall Calculators  | - K.M, Advancing inMath F4 Pg 91-92- KLB Bk4Pg141-142   |  |
| 7 | Longitudes and Latitudes  | Time and longitude  | By the end of the lesson, the learner should be able to: Calculate time in relation to kilometersper hour  | Practice exerciseAdvancing BK 4, Ex. 6.5KLB Pg 4, Ex. 6.3  | GlobeBall Calculators  | - K.M, Advancing inMath F4 Pg 91-92- KLB Bk4Pg141-142   |  |
| 7 | 1 | Longitudes and Latitudes  | Speed in knots and kilometer per hour  | By the end of the lesson, the learner should be able to: Calculate speed in knots andkilometer per hour  | Practice exerciseAdvancing BK 4, Ex. 6.6KLB Pg 4, Ex. 6.3  | Real life situation  | - K.M, Advancing inMath F4 Pg 96-98- KLB BK 4 Pg 150   |  |
| 2 | Longitudes and Latitudes  | Speed in knots and kilometer per hour  | By the end of the lesson, the learner should be able to: Calculate speed in knots andkilometer per hour  | Practice exerciseAdvancing BK 4, Ex. 6.6KLB Pg 4, Ex. 6.3  | Real life situation  | - K.M, Advancing inMath F4 Pg 96-98- KLB BK 4 Pg 150   |  |
| 3 | Longitudes and Latitudes  | Speed in knots and kilometer per hour  | By the end of the lesson, the learner should be able to: Calculate speed in knots andkilometer per hour  | Practice exerciseAdvancing BK 4, Ex. 6.6KLB Pg 4, Ex. 6.3  | Real life situation  | - K.M, Advancing inMath F4 Pg 96-98- KLB BK 4 Pg 150   |  |
| 4 | Longitudes and Latitudes  | Speed in knots and kilometer per hour  | By the end of the lesson, the learner should be able to: Calculate speed in knots andkilometer per hour  | Practice exerciseAdvancing BK 4, Ex. 6.6KLB Pg 4, Ex. 6.3  | Real life situation  | - K.M, Advancing inMath F4 Pg 96-98- KLB BK 4 Pg 150   |  |
| 5 | Linear Programming  | Formation of linear Inequalities  | By the end of the lesson, the learner should be able to: Form linear inequalities based on reallife situations  | Practice exerciseAdvancing BK 4, Ex. 7.3KLB BK 4, Ex. 7.1  | Inequalities  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 6 | Linear Programming  | Formation of linear Inequalities  | By the end of the lesson, the learner should be able to: Form linear inequalities based on reallife situations  | Practice exerciseAdvancing BK 4, Ex. 7.3KLB BK 4, Ex. 7.1  | Inequalities  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 7 | Linear Programming  | Formation of linear Inequalities  | By the end of the lesson, the learner should be able to: Form linear inequalities based on reallife situations  | Practice exerciseAdvancing BK 4, Ex. 7.3KLB BK 4, Ex. 7.1  | Inequalities  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 8 | **Mid Term Break** |
| 9 | 1 | Linear Programming  | Analytical solutions of linear inequalities  | By the end of the lesson, the learner should be able to: Analyze solutions of linear inequalities  | Practice exerciseAdvancing BK 4, Ex. 7.1KLB BK 4, Ex. 7.2  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 95-96- KLB BK 4 Pg 152-155   |  |
| 2 | Linear Programming  | Analytical solutions of linear inequalities  | By the end of the lesson, the learner should be able to: Analyze solutions of linear inequalities  | Practice exerciseAdvancing BK 4, Ex. 7.1KLB BK 4, Ex. 7.2  | Square boardsGraph papers  | - K.M, Advancing inMath F4 Pg 95-96- KLB BK 4 Pg 152-155   |  |
| 3 | Linear Programming  | Solutions of linear inequalities by graph  | By the end of the lesson, the learner should be able to: Represent the linear inequalities on agraph  | Representing inequalitiesin a graphAdvancing BK 4, Ex. 7.2KLB BK 4, Ex. 7.2  | Square boards  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 4 | Linear Programming  | Solutions of linear inequalities by graph  | By the end of the lesson, the learner should be able to: Represent the linear inequalities on agraph  | Representing inequalitiesin a graphAdvancing BK 4, Ex. 7.2KLB BK 4, Ex. 7.2  | Square boards  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 5 | Linear Programming  | Solutions of linear inequalities by graph  | By the end of the lesson, the learner should be able to: Represent the linear inequalities on agraph  | Representing inequalitiesin a graphAdvancing BK 4, Ex. 7.2KLB BK 4, Ex. 7.2  | Square boards  | - K.M, Advancing inMath F4 Pg 94-95- KLB BK 4 Pg 151-152   |  |
| 6 | Linear Programming  | Optimization (include objective)  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear inequalities  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Graph paper  | - K.M, Advancing inMath F4 Pg 95-96- KLB BK 4 Pg 152-155  |  |
| 7 | Linear Programming  | Optimization (include objective)  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear inequalities  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Graph paper  | - K.M, Advancing inMath F4 Pg 95-96- KLB BK 4 Pg 152-155  |  |
| 10 | 1 | Linear Programming  | Application of linear programming to real life situation  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear programming toreal life situations  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Real life situationsSquare boardsGraph paper  | - K.M, Advancing inMath F4 Pg 99-100- KLB BK 4 Pg 157-159   |  |
| 2 | Linear Programming  | Application of linear programming to real life situation  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear programming toreal life situations  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Real life situationsSquare boardsGraph paper  | - K.M, Advancing inMath F4 Pg 99-100- KLB BK 4 Pg 157-159   |  |
| 3 | Linear Programming  | Application of linear programming to real life situation  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear programming toreal life situations  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Real life situationsSquare boardsGraph paper  | - K.M, Advancing inMath F4 Pg 99-100- KLB BK 4 Pg 157-159   |  |
| 4 | Linear Programming  | Application of linear programming to real life situation  | By the end of the lesson, the learner should be able to: Solve and interpret the optimum solution of the linear programming toreal life situations  | Practice exerciseAdvancing BK 4, Ex. 7.5KLB BK 4, Ex. 7.3  | Real life situationsSquare boardsGraph paper  | - K.M, Advancing inMath F4 Pg 99-100- KLB BK 4 Pg 157-159   |  |
| 5 | Differentiation  | Average and instantaneous rates of change  | By the end of the lesson, the learner should be able to: Find out the average rates of change and instantaneous rate of change  | Practice exerciseAdvancing BK 4, Ex. 8.1KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg100-103- KLB BK 4 Pg 157-159   |  |
| 6 | Differentiation  | Average and instantaneous rates of change  | By the end of the lesson, the learner should be able to: Find out the average rates of change and instantaneous rate of change  | Practice exerciseAdvancing BK 4, Ex. 8.1KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg100-103- KLB BK 4 Pg 157-159   |  |
| 7 | Differentiation  | Average and instantaneous rates of change  | By the end of the lesson, the learner should be able to: Find out the average rates of change and instantaneous rate of change  | Practice exerciseAdvancing BK 4, Ex. 8.1KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg100-103- KLB BK 4 Pg 157-159   |  |
| 11 | 1 | Differentiation  | Differentiation Gradient of a curve at a point  | By the end of the lesson, the learner should be able to: Find the gradient of a curve at a pointusing tangent  | Practice exerciseAdvancing BK 4, Ex. 8.2KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 109- KLB BK 4 Pg 162-163   |  |
| 2 | Differentiation  | Differentiation Gradient of a curve at a point  | By the end of the lesson, the learner should be able to: Find the gradient of a curve at a pointusing tangent  | Practice exerciseAdvancing BK 4, Ex. 8.2KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 109- KLB BK 4 Pg 162-163   |  |
| 3 | Differentiation  | Differentiation Gradient of a curve at a point  | By the end of the lesson, the learner should be able to: Find the gradient of a curve at a pointusing tangent  | Practice exerciseAdvancing BK 4, Ex. 8.2KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 109- KLB BK 4 Pg 162-163   |  |
| 4 | Differentiation  | Gradient of y = xn where n is a positive interger  | By the end of the lesson, the learner should be able to: Find the gradient function of the formy = xn (n = positive interger)  | Practice exerciseAdvancing BK 4, Ex. 8.2 and 8.3KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 110- KLB BK 4 Pg 164-167   |  |
| 5 | Differentiation  | Gradient of y = xn where n is a positive interger  | By the end of the lesson, the learner should be able to: Find the gradient function of the formy = xn (n = positive interger)  | Practice exerciseAdvancing BK 4, Ex. 8.2 and 8.3KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 110- KLB BK 4 Pg 164-167   |  |
| 6 | Differentiation  | Gradient of y = xn where n is a positive interger  | By the end of the lesson, the learner should be able to: Find the gradient function of the formy = xn (n = positive interger)  | Practice exerciseAdvancing BK 4, Ex. 8.2 and 8.3KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg 110- KLB BK 4 Pg 164-167   |  |
| 7 | Differentiation  | Delta notation (?)  | By the end of the lesson, the learner should be able to: - Relate the delta notation to rates ofchange- Define derivative of a functionpolynomial and differentiation  | Practice exerciseAdvancing BK 4, Ex. 8.2 and 8.4KLB BK 4, Ex. 8.1  | Square boardsGraph paper  | - K.M, Advancing inMath F4 Pg114-115- KLB BK 4 Pg 167-170   |  |
| 12-14 | **End Term Exams and closing** |