SCHEME OF WORK MATHEMATICS FORM 4 2022

TERM II ENDARASHA BOYS

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/L AIDS** | **REFERENCE** | **REMARKS** |
| **2** | 1 | Trigonometry | Deriving the relation Sin2 0  + Cos2 0 = 1 | By the end of the lesson, the learner should be able to:  Derive trigonometric identity  Sin2 0 + Cos2 0 = 1 | Practice exercise Advancing BK 4, Ex. 4.1  Ex 4.2, Ex 4.3 | Charts illustrating the unit circle and right | - K.M, Advancing in Math 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 of the form y = sin x  y = tan x y = cos x | Practice exercise KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.4 and 4.5  Patel BK 4, Ex. 4.2 | Square boards Graph papers | * K.M, Advancing in Math 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 of the form y = sin x  y = tan x y = cos x | Practice exercise KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.4 and 4.5  Patel BK 4, Ex. 4.2 | Square boards Graph papers | * K.M, Advancing in Math F4 Pg 59-64 * KLB Bk4 Pg 96-99 |  |
| 4 | 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 relations y = sin x  y = cos x y = tan x | Drawing graphs KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.4  Patel BK 4, Ex. 4.3 | Square boards Graph papers | * K.M, Advancing in Math F4 Pg 59-63 * KLB Bk4 Pg 96-99 |  |
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|  | 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 relations y = sin x  y = cos x y = tan x | Drawing graphs KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.4  Patel BK 4, Ex. 4.3 | Square boards Graph papers | * K.M, Advancing in Math 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 relations y = sin x  y = cos x y = tan x | Drawing graphs KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.4  Patel BK 4, Ex. 4.3 | Square boards Graph papers | * K.M, Advancing in Math F4 Pg 59-63 * KLB Bk4 Pg 96-99 |  |
| 7 | 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 graphs y = sin x  y = tan x y = cos x  The amplitude, wavelength and phase angle | Practice exercise | Trigonometric relations Graphs | - K.M, Advancing in Math F4 Pg 59-63 |  |
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|  | 8 | 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 graphs y = sin x  y = tan x y = cos x  The amplitude, wavelength and phase angle | Practice exercise | Trigonometric relations Graphs | - K.M, Advancing in Math F4 Pg 59-63 |  |
| **3** | 1 | 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 boards Graph papers | - K.M, Advancing in Math F4 Pg 60 |  |
| 2 | 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 of the form y = a cos (bx + 0)  y = a tan (bx + 0) | Drawing graphs | Square boards Graph papers | - K.M, Advancing in Math F4 Pg 59-64 |  |
| 3 | 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 relations Graphs | - K.M, Advancing in Math F4 Pg 59-64 |  |
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|  | 4 | 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 relations Graphs | - K.M, Advancing in Math F4 Pg 59-64 |  |
| 5 | 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 relations Graphs | - K.M, Advancing in Math F4 Pg 59-64 |  |
| 6 | Trigonometry | Solution to simple Trigonometric equations | By the end of the lesson, the learner should be able to:  Solve simple trigonometric equations analytically and graphically | Practice exercise KLB Pg 4, Ex. 4.3  Advancing BK 4,  Ex. 4.6  Patel BK 4, Ex. 4.4 | Trigonometric relations Graphs | * K.M, Advancing in Math F4 Pg 65-67 * KLB BK 4 Pg 100-102 |  |
| 7 | 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 exercise Advancing BK 4,  Ex. 5.1  KLB Pg 4, Ex. 5.1 | 3-D models | * K.M, Advancing in Math F4 Pg 72-73 * KLB BK 4 Pg 104-106 |  |
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|  | 8 | 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 exercise Advancing BK 4,  Ex. 5.1  KLB Pg 4, Ex. 5.2 | 3-D models | * K.M, Advancing in Math F4 Pg 73 * KLB BK 4 Pg 118-119 |  |
| **4** | 1 | 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 points in 3D geometry | Practice exercise Advancing BK 4,  Ex. 5.4 | 3-D models | - K.M, Advancing in Math F4 Pg 78-80 |  |
| 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 between  a line and a line | Practice exercise Advancing BK 4,  Ex. 5.4 | 3-D models | - K.M, Advancing in Math 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 between  a line and a plane | Practice exercise Advancing BK 4,  Ex. 5.3 and 5.4  KLB Pg 4, Ex. 5.1 | 3-D models | * K.M, Advancing in Math 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 angle  between a line and a plane | Practice exercise Advancing BK 4,  Ex. 5.4  KLB Pg 4, Ex. 5.2 | 3-D models | * K.M, Advancing in Math F4 Pg 78-80 * KLB BK 4 Pg 113-118 |  |
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|  | 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 angle  between a line and a plane | Practice exercise Advancing BK 4,  Ex. 5.4  KLB Pg 4, Ex. 5.2 | 3-D models | * K.M, Advancing in Math 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 exercise Advancing BK 4,  Ex. 5.4  KLB Pg 4, Ex. 5.2 | 3-D models | * K.M, Advancing in Math 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 exercise Advancing BK 4,  Ex. 6.2  KLB Pg 4, Ex. 6.1 | Globe Ball | * K.M, Advancing in Math F4 Pg 81-83 * KLB BK 4 Pg 125-126 |  |
| 7-8 | 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 exercise Advancing BK 4,  Ex. 6.2  KLB Pg 4, Ex. 6.1 | Globe Ball | * K.M, Advancing in Math F4 Pg 81-83 * KLB BK 4 Pg 125-126 |  |
| **5** | MID TERM EXAMS AND BREAK | | | | | | | |

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| **6** | 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 in relation to a sphere (including the earth) | Practice exercise Advancing BK 4,  Ex. 6.2  KLB Pg 4, Ex. 6.1 | Globe Ball | * K.M, Advancing in Math 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 in relation to a sphere (including the earth) | Practice exercise Advancing BK 4,  Ex. 6.2  KLB Pg 4, Ex. 6.1 | Globe Ball | * K.M, Advancing in Math F4 Pg 83 * KLB BK 4 Pg 126-127 |  |
| 3 | 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 in terms of latitude and longitude | Practice exercise Advancing BK 4,  Ex. 6.2  KLB Pg 4, Ex. 6.1 | Globe Ball | * K.M, Advancing in Math F4 Pg 86 * KLB BK 4 Pg 128-129 |  |
| 4 | 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 the radii of small and great circles | Practice exercise Advancing BK 4,  Ex. 6.4  KLB Pg 4, Ex. 6.2 | Globe Ball | * K.M, Advancing in Math F4 Pg 89 * KLB BK 4 Pg 133-134 |  |
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|  | 5 | 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 the radii of small and great circles | Practice exercise Advancing BK 4,  Ex. 6.4  KLB Pg 4, Ex. 6.2 | Globe Ball | * K.M, Advancing in Math F4 Pg 89 * KLB BK 4 Pg 133-134 |  |
| 6 | 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 two  points along the great circles and small circles (longitudes and latitudes) in  nautical miles (nm) and kilometres (km) | Practice exercise Advancing BK 4,  Ex. 6.4  KLB Pg 4, Ex. 6.2 | Globe Ball | * K.M, Advancing in Math F4 Pg 87-90 * KLB BK 4 Pg 130-139 |  |
| 7 | 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 miles  and kilometers along a circle of  latitude | Practice exercise Advancing BK 4,  Ex. 6.5  KLB Pg 4, Ex. 6.3 | Globe Ball  Calculators | * K.M, Advancing in Math F4 Pg 87-98 * KLB BK 4 Pg 130-133 |  |
| 8 | 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 miles  and kilometers along a circle of  latitude | Practice exercise Advancing BK 4,  Ex. 6.5  KLB Pg 4, Ex. 6.3 | Globe Ball  Calculators | * K.M, Advancing in Math F4 Pg 87-98 * KLB BK 4 Pg 130-133 |  |
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| **7** | 1 | Longitudes and Latitudes | Time and longitude | By the end of the lesson, the learner should be able to:  Calculate time in relation to kilometers per hour | Practice exercise Advancing BK 4,  Ex. 6.5  KLB Pg 4, Ex. 6.3 | Globe Ball  Calculators | - K.M, Advancing in Math F4 Pg 91-92  - KLB Bk4Pg141-142 |  |
| 2 | Longitudes and Latitudes | Time and longitude | By the end of the lesson, the learner should be able to:  Calculate time in relation to kilometers per hour | Practice exercise Advancing BK 4,  Ex. 6.5  KLB Pg 4, Ex. 6.3 | Globe Ball  Calculators | - K.M, Advancing in Math F4 Pg 91-92  - KLB Bk4Pg141-142 |  |
| 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 and  kilometer per hour | Practice exercise Advancing BK 4,  Ex. 6.6  KLB Pg 4, Ex. 6.3 | Real life situation | * K.M, Advancing in Math 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 and  kilometer per hour | Practice exercise Advancing BK 4,  Ex. 6.6  KLB Pg 4, Ex. 6.3 | Real life situation | * K.M, Advancing in Math F4 Pg 96-98 * KLB BK 4 Pg 150 |  |
| 5 | 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 and  kilometer per hour | Practice exercise Advancing BK 4,  Ex. 6.6  KLB Pg 4, Ex. 6.3 | Real life situation | * K.M, Advancing in Math F4 Pg 96-98 * KLB BK 4 Pg 150 |  |
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|  | 6 | Linear Programming | Formation of linear Inequalities | By the end of the lesson, the learner should be able to:  Form linear inequalities based on real  life situations | Practice exercise Advancing BK 4,  Ex. 7.3  KLB BK 4, Ex. 7.1 | Inequalities | * K.M, Advancing in Math 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 real  life situations | Practice exercise Advancing BK 4,  Ex. 7.3  KLB BK 4, Ex. 7.1 | Inequalities | * K.M, Advancing in Math F4 Pg 94-95 * KLB BK 4 Pg 151-152 |  |
| 8 | 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 exercise Advancing BK 4,  Ex. 7.1  KLB BK 4, Ex. 7.2 | Square boards Graph papers | * K.M, Advancing in Math F4 Pg 95-96 * KLB BK 4 Pg 152-155 |  |
| **8** | 1 | 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 a graph | Representing inequalities in a graph  Advancing BK 4,  Ex. 7.2  KLB BK 4, Ex. 7.2 | Square boards | * K.M, Advancing in Math F4 Pg 94-95 * KLB BK 4 Pg 151-152 |  |
| 2 | 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 a graph | Representing inequalities in a graph  Advancing BK 4,  Ex. 7.2  KLB BK 4, Ex. 7.2 | Square boards | * K.M, Advancing in Math F4 Pg 94-95 * KLB BK 4 Pg 151-152 |  |
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|  | 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 a graph | Representing inequalities in a graph  Advancing BK 4,  Ex. 7.2  KLB BK 4, Ex. 7.2 | Square boards | * K.M, Advancing in Math F4 Pg 94-95 * KLB BK 4 Pg 151-152 |  |
| 4 | 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 exercise Advancing BK 4,  Ex. 7.5  KLB BK 4, Ex. 7.3 | Graph paper | * K.M, Advancing in Math F4 Pg 95-96 * KLB BK 4 Pg 152-155 |  |
| 5 | 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 exercise Advancing BK 4,  Ex. 7.5  KLB BK 4, Ex. 7.3 | Graph paper | * K.M, Advancing in Math F4 Pg 95-96 * KLB BK 4 Pg 152-155 |  |
| 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 exercise Advancing BK 4,  Ex. 7.5  KLB BK 4, Ex. 7.3 | Graph paper | * K.M, Advancing in Math F4 Pg 95-96 * KLB BK 4 Pg 152-155 |  |
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|  | 7 | 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 to  real life situations | Practice exercise Advancing BK 4,  Ex. 7.5  KLB BK 4, Ex. 7.3 | Real life situations Square boards Graph paper | * K.M, Advancing in Math F4 Pg 99-100 * KLB BK 4 Pg 157-159 |  |
| 8 | 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 to  real life situations | Practice exercise Advancing BK 4,  Ex. 7.5  KLB BK 4, Ex. 7.3 | Real life situations Square boards Graph paper | * K.M, Advancing in Math F4 Pg 99-100 * KLB BK 4 Pg 157-159 |  |
| **9** | 1 | 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 exercise Advancing BK 4,  Ex. 8.1  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg100-103 * KLB BK 4 Pg 157-159 |  |
| 2 | 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 exercise Advancing BK 4,  Ex. 8.1  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg100-103 * KLB BK 4 Pg 157-159 |  |
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|  | 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 point using tangent | Practice exercise Advancing BK 4,  Ex. 8.2  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg 109 * KLB BK 4 Pg 162-163 |  |
| 4 | 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 point using tangent | Practice exercise Advancing BK 4,  Ex. 8.2  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg 109 * KLB BK 4 Pg 162-163 |  |
| 5 | 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 point using tangent | Practice exercise Advancing BK 4,  Ex. 8.2  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg 109 * KLB BK 4 Pg 162-163 |  |
| 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 form y = xn (n = positive interger) | Practice exercise Advancing BK 4,  Ex. 8.2 and 8.3  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg 110 * KLB BK 4 Pg 164-167 |  |
| 7 | 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 form y = xn (n = positive interger) | Practice exercise Advancing BK 4,  Ex. 8.2 and 8.3  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg 110 * KLB BK 4 Pg 164-167 |  |
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|  | 8 | Differentiation | Delta notation (?) | By the end of the lesson, the learner should be able to:   * Relate the delta notation to rates of change * Define derivative of a function   polynomial and differentiation | Practice exercise Advancing BK 4,  Ex. 8.2 and 8.4  KLB BK 4, Ex. 8.1 | Square boards Graph paper | * K.M, Advancing in Math F4 Pg114-115 * KLB BK 4 Pg 167-170 |  |
| **10** | END OF TERM EXAMS AND SCHOOL CLOSING | | | | | | | |