

RATIONALISED SCHEMES OF WORK



MATHEMATICS

GRADE 8

TERM 3

TEACHER'S NAME.....

TSC NUMBER.....

SCHOOL.....

W K	LS N	STRAND	SUBSTRAND	SPECIFIC LEARNING OUTCOME	KEY INQUIRY QUESTION(S)	LEARNING EXPERIENCES	LEARNING RESOURCES	ASSESSMENT METHODS	REFL
1	1	GEOMETRY	Scale drawing	By the end of the lesson the learner should be able to: -represent length to a given scale in different situations -convert actual length to scale length -appreciate the use of scale drawing in maps	How do we determine scale in real life?	The learner is guided to: -measure and represent length of different objects from immediate environment in his/her book -discuss and represent length of a given scale in different situations	KLB Top scholar Mathematics Grade 8 page 143-145	-oral questions -written questions	
	2	GEOMETRY	Scale drawing	-represent length to a given scale in different situations -convert actual length to scale length -appreciate the use of scale drawing in maps	How do we determine scale in real life?	-measure and represent length of different objects from immediate environment in his/her book -discuss and represent length of a given scale in different situations	KLB Top scholar Mathematics Grade 8 page 143-145	-oral questions -written questions	

	3	GEOMETRY	Scale drawing	-convert scale length to actual length -interpret linear scales in statement form in different questions -appreciate the use of scale drawing in maps	Where do we use scale drawing in real life situation?	-discuss and practice converting scale from one to another -read, discuss and interpret given linear scales in statement form -discuss and write given linear scales in statement form	KLB Top scholar Mathematics Grade 8 page 146-149	-oral questions -written questions	
	4	GEOMETRY	Scale drawing	-convert scale length to actual length -interpret linear scales in statement form in different questions -appreciate the use of scale drawing in maps	Where do we use scale drawing in real life situation?	-discuss and practice converting scale from one to another -read, discuss and interpret given linear scales in statement form -discuss and write given linear scales in statement form	KLB Top scholar Mathematics Grade 8 page 146-149	-oral questions -written questions	

	5	GEOMETRY	Scale drawing	-write linear scale in statement form in different situations -interpret linear scales in ratio form in different situations -appreciate the use of scale drawing in maps	How do we interpret linear scales in ratio form?	-write linear scale in statement form -read, discuss and interpret given linear scales in ratio form	KLB Top scholar Mathematics Grade 8 page 149-151	-oral questions Written exercise	
2	1	GEOMETRY	Scale drawing	-write linear scale in statement form in different situations -interpret linear scales in ratio form in different situations -appreciate the use of scale drawing in maps	How do we interpret linear scales in ratio form?	-write linear scale in statement form -read, discuss and interpret given linear scales in ratio form	KLB Top scholar Mathematics Grade 8 page 149-151	-oral questions Written exercise	
	2	GEOMETRY	Scale drawing	-convert linear scale from statement form to ratio form and ratio form to statement form -make scale drawing in different situations	how do we convert linear scale from statement form to ratio form?	-discuss and carry out conversions of scales from one to another -make scale drawings on different learning materials using appropriate scale	KLB Top scholar Mathematics Grade 8 page 152-155 Maps Digital devices	-oral questions Written exercise	

				-apply scale drawing in real life situation -use digital devices to learn more on scale drawing -appreciate use of scale drawing in maps		-use digital devices to learn more on scale -use maps to demonstrate scale			
	3	GEOMETRY	Scale drawing	-convert linear scale from statement form to ratio form and ratio form to statement form -make scale drawing in different situations -apply scale drawing in real life situation -use digital devices to learn more on scale drawing -appreciate use of scale drawing in maps	how do we convert linear scale from statement form to ratio form?	-discuss and carry out conversions of scales from one to another -make scale drawings on different learning materials using appropriate scale -use digital devices to learn more on scale -use maps to demonstrate scale	KLB Top scholar Mathematics Grade 8 page 152-155 Maps Digital devices	-oral questions - Written exercise	
	4	GEOMETRY	Common solids	-identify common solids from the environment	What are common solids?	-collect common solids such as cubes, cuboids,	KLB Top scholar	-oral questions -written questions	

				-sketch nets of cubes,cuboids,cylinders pyramids and cones -appreciate use of common solids in real life		Cylinders,pyramids and cones from the immediate environment -discuss,open and sketch nets of hollow solids	Mathematics Grade 8 page 158-165		
	5	GEOMETRY	Common solids	-identify common solids from the environment -sketch nets of cubes,cuboids,cylinders pyramids and cones -appreciate use of common solids in real life	What are common solids?	-collect common solids such as cubes,cuboids, Cylinders,pyramids and cones from the immediate environment -discuss,open and sketch nets of hollow solids	KLB Top scholar Mathematics Grade 8 page 158-165		
3	1	GEOMETRY	Common solids	-identify common solids from the environment -sketch nets of cubes,cuboids,cylinders pyramids and cones -appreciate use of common solids in real life	What are common solids?	-collect common solids such as cubes,cuboids, Cylinders,pyramids and cones from the immediate environment -discuss,open and sketch nets of hollow solids	KLB Top scholar Mathematics Grade 8 page 158-165	-oral questions -written questions	

	2	GEOMETRY	Common solids	-work out surface area of solids from nets of solids in different situations -determine the distance between two points on the surface of solid in different situations -appreciate use of common solids in real life	How do we determine surface areas of solids?	-work out the surface area of solids from nets -discuss and practice measuring the distance between any two points on the surface of solids	KLB Top scholar Mathematics Grade 8 page 166-174	-oral questions -written questions	
	3	GEOMETRY	Common solids	-work out surface area of solids from nets of solids in different situations -determine the distance between two points on the surface of solid in different situations -appreciate use of common solids in real life	How do we determine surface areas of solids?	-work out the surface area of solids from nets -discuss and practice measuring the distance between any two points on the surface of solids	KLB Top scholar Mathematics Grade 8 page 166-174	-oral questions -written questions	
	4	GEOMETRY	Common solids	-work out surface area of solids from nets of solids in different situations -determine the distance between two points on the	How do we determine surface areas of solids?	-work out the surface area of solids from nets -discuss and practice measuring the distance between any two	KLB Top scholar Mathematics Grade 8 page 166-174		

				surface of solid in different situations -appreciate use of common solids in real life		points on the surface of solids			
	5	GEOMETRY	Common solids	-make models of hollow and compact solids for skills development -use IT devices to draw models and nets of solids - appreciate use of common solids in real life appreciate use of common solids in real life	How do you determine the volume of common solids?	-make models of hollow and compact solids using locally available material -use digital devices to watch videos on common solids,nets and draw the solids and nets -use other resources such as print to draw or trace nets of solids	KLB Top scholar Mathematics Grade 8 page 175-178	-oral questions -written questions	
4	1	GEOMETRY	Common solids	-make models of hollow and compact solids for skills development -use IT devices to draw models and nets of solids - appreciate use of common solids in real life appreciate use of common solids in real life	How do you determine the volume of common solids?	-make models of hollow and compact solids using locally available material -use digital devices to watch videos on common solids,nets and draw the solids and nets	KLB Top scholar Mathematics Grade 8 page 175-178	-oral questions -observation -written questions	

						-use other resources such as print to draw or trace nets of solids			
	2	GEOMETRY	Common solids	-make models of hollow and compact solids for skills development -use IT devices to draw models and nets of solids - appreciate use of common solids in real life appreciate use of common solids in real life	How do you determine the volume of common solids?	-make models of hollow and compact solids using locally available material -use digital devices to watch videos on common solids,nets and draw the solids and nets -use other resources such as print to draw or trace nets of solids	KLB Top scholar Mathematics Grade 8 page 175-178	-oral questions -observation -written questions	
	3	GEOMETRY	Common solids	-make models of hollow and compact solids for skills development -use IT devices to draw models and nets of solids - appreciate use of common solids in real life appreciate use of common solids in real life	How do you determine the volume of common solids?	-make models of hollow and compact solids using locally available material -use digital devices to watch videos on common solids,nets and draw the solids and nets -use other resources such as	KLB Top scholar Mathematics Grade 8 page 175-178	-oral questions -observation -written questions -oral questions -observation	

						print to draw or trace nets of solids			
	4	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-draw bar graphs of data from real life situations -interpret bars of data from real life situations -desire to use data in representation and interpretation in real life situation	What are the different ways of representing data?	-collect data from the immediate environment or experiences for example size of shoes,height or test scores -use suitable scale to represent the data in bar graphs	KLB Top scholar Mathematics Grade 8 page 178- 183	-oral questions -observation -written exercise	
	5	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-draw bar graphs of data from real life situations -interpret bar graphs of data from real life situations -desire to use data in representation and interpretation in real life situation	What are the different ways of representing data?	-collect data from the immediate environment or experiences for example size of shoes,height or test scores -use suitable scale to represent the data in bar graphs	KLB Top scholar Mathematics Grade 8 page 178- 183	-oral questions -observation -written exercise	
5	1	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-draw line graphs of given data from real life situations -interpret line graphs of data from real life situations	How do we draw line graphs to represent data?	-discuss and represent data in line graphs -discuss and interpret line graphs of given data	KLB Top scholar Mathematics Grade 8 page 184-187	-oral questions -written questions	

				-desire to use data in representation and interpretation in real life situation					
	2	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-draw line graphs of given data from real life situations -interpret line graphs of data from real life situations -desire to use data in representation and interpretation in real life situation	How do we draw line graphs to represent data?	-discuss and represent data in line graphs -discuss and interpret line graphs of given data	KLB Top scholar Mathematics Grade 8 page 184-187	-oral questions -written questions	
	3	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-draw line graphs of given data -interpret line graphs of given data from real life situations -desire to use data in representation and interpretation in real life situation	How do we draw line graphs to represent data?	-discuss and represent data in line graphs -discuss and interpret line graphs of given data	KLB Top scholar Mathematics Grade 8 page 184-187	-oral questions -observation -written exercise	
	4	DATA HANDLING AND	Data presentation and interpretation	-draw line graphs of given data	How do we interpret line graphs?	-discuss and represent data in line graphs	KLB Top scholar Mathematics Grade 8 page	-oral questions -observation -written exercise	

		PROBABILI TY		-interpret line graphs of given data -desire to use data in representation and interpretation in real life situation		-discuss and interpret line graphs of given data	184-187		
	5	DATA HANDLING AND PROBABILI TY	Data presentation and interpretation	-identify the mode of a set of discrete data -calculate the mean of a set of discrete data -desire to use data in representation and interpretation in real life situation	How do we get the mean of a given data?	-identify the mode of a set of discrete data -discuss and work out the average from different sets of discrete data and relate it to mean	KLB Top scholar Mathematics Grade 8 page 191-193	-oral questions -written exercise	
6	1	DATA HANDLING AND PROBABILI TY DATA HANDLING AND PROBABILI TY	Data presentation and interpretation	-identify the mode of a set of discrete data -calculate the mean of a set of discrete data -desire to use data in representation and interpretation in real life situation	How do we get the mean of a given data?	-identify the mode of a set of discrete data -discuss and work out the average from different sets of discrete data and relate it to mean	KLB Top scholar Mathematics Grade 8 page 191-193	-oral questions -written exercise	

2	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-determine the median of a set of discrete data -use IT and other materials to determine the mean,mode and median of discrete data -desire to use data representation and interpretation in real life situations	How do you determine the median of data?	-carry out different activities that involve getting the median position -use IT and other materials to determine the mean,mode and median of discrete data -use IT and other materials to determine the mean,mode and median of discrete data -use IT and other materials to determine the mean,mode and median of discrete data	KLB Top scholar Mathematics Grade 8 page 194-196	-oral questions -written exercise	
3	DATA HANDLING AND PROBABILITY	Data presentation and interpretation	-determine the median of a set of discrete data -use IT and other materials to determine the mean,mode and median of discrete data	How do you determine the median of data?	-carry out different activities that involve getting the median position -use IT and other materials to determine the mean,mode and median of discrete data	KLB Top scholar Mathematics Grade 8 page 194-196	-oral questions -written exercise	

				-desire to use data representation and interpretation in real life situations		-use IT and other materials to determine the mean,mode and median of discrete data -use IT and other materials to determine the mean,mode and median of discrete data			
	4	DATA HANDLING AND PROBABILITY	probability	-identify events involving chance in real life situations -perform chance experiments in different situations -recognise events that happen by chance in real life situation	When do we consider chances that an event is likely to happen?	-discuss daily events that are likely or unlikely to happen -discuss and carry out different chance experiments like flipping the coins,tossing the dice or drawing coloured balls from a bag one ball at a time	KLB Top scholar Mathematics Grade 8 page 197-199	-oral questions -written exercise	
	5	DATA HANDLING AND PROBABILITY	probability	-identify events involving chance in real life situation	When do we consider chances that an event is likely to happen?	-discuss daily events that are likely or unlikely to happen -discuss and carry out different	KLB Top scholar Mathematics Grade 8 page 197-199	-oral questions -written exercise	

				-perform chance experiments in different situation -recognise events that happen by chance in real life situation		chance experiments like flipping the coins,tossing the dice or drawing coloured balls from a bag one ball at a time			
7	1	DATA HANDLING AND PROBABILITY	probability	-identify events involving chance in real life situation -perform chance experiments in different situation -recognise events that happen by chance in real life situation	When do we consider chances that an event is likely to happen?	-discuss daily events that are likely or unlikely to happen -discuss and carry out different chance experiments like flipping the coins,tossing the dice or drawing coloured balls from a bag one ball at a time	KLB Top scholar Mathematics Grade 8 page 197-199	-oral questions -written exercise	
	2	DATA HANDLING AND PROBABILITY	probability	-write experimental probability outcomes in different situations -express the probability outcomes in fractions in different situations	Why is probability important in real life situations?	-discuss experimental probability outcomes in different situations -record the probability of the chance outcomes of fractions	KLB Top scholar Mathematics Grade 8 page 199-202	-oral questions -written exercise	

				-recognise events that happen by chance in real life situations					
	3	DATA HANDLING AND PROBABILITY	probability	-write experimental probability outcomes in different situations -express the probability outcomes in fractions in different situations -recognise events that happen by chance in real life situations	Why is probability important in real life situations?	-discuss experimental probability outcomes in different situations -record the probability of the chance outcomes of fractions	KLB Top scholar Mathematics Grade 8 page 199-202	-oral questions -written exercise	
	4	DATA HANDLING AND PROBABILITY	probability	-express the probability outcome in decimals or percentages -use IT and other devices to play games involving probability -recognise events that happen by	Why is probability important in real life situations?	-record the probability of the chance outcomes in decimals, percentages -use digital devices to play games involving probability	KLB Top scholar Mathematics Grade 8 page 202-204	-oral questions -written exercise	

				chance in real life situation					
	5	DATA HANDLING AND PROBABILITY	probability	-express the probability outcome in decimals or percentages -use IT and other devices to play games involving probability -recognise events that happen by chance in real life situation	How do we express probability outcome in decimals and percentages?	-record the probability of the chance outcomes in decimals, percentages -use digital devices to play games involving probability	KLB Top scholar Mathematics Grade 8 page 202-204	-oral questions -written exercise	
8-9	REVISION/END OF YEAR ASSESSMENT								