

MATHEMATICS SCHEMES OF WORK

STANDARD EIGHT TERMI

YEAR 2014

References

- 1.New progressive primary mathematics teacher's guide book 8
- 2.New progressive primary mathematics pupil's book 8
- 3.Primary mathematics pupil's book 8
- 4.Primary mathematics teacher's guide book 8

W E E K	L E S S O N	TOPIC	SUB- TOPIC	OBJECTIVES	TEACHER'S ACTIVITIES	LEARNER'S ACTIVITIES	LEARNING/ TEACHING RESOURCES	REFERENCES	ASSESSMENT	RMK
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1	REPORTING AND PREPARATIONS									
2	1	NUMBERS	Place value	By the end of the lesson the learner should be able to identify the place value of a given numbers	-Grouping - Explanation -Working out -demonstration -Discussion	-Grouping - Explanation -Working out - demonstration -Discussion	-Objects like tins, books, cups etc. -place value chart	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14 TG b8Pg2	Written exercise	
	2		Total value	By the end of the lesson the learner should be able to identify total value of a given number	-Grouping objects - arranging -Labelling and matching objects according to common features.	-Grouping objects - arranging -Labelling and matching numbers	place value chart	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14 TG b8Pg2-11	Filling in the table	
	3		Reading numbers	By the end of the lesson the learner should be able to read and write numbers in words and in symbols	-- Explanation -Working out -demonstration -reading	-- Explanation -Working out - demonstration	place value chart	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14	Working out a problem	

					ion -reading		TG b8Pg2-11		
4		Writing numbers	By the end of the lesson the learner should be able to write numbers in words and in symbols	-- Explanation -Working out -demonstration -writing	-- Explanation -Working out - demonstration -writing	place value chart+	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14 TG b8Pg2-11	Written exercise	
5		Squares of numbers	By the end of the lesson the learner should be able to work out squares of perfect square numbers	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Rectangles, circles, triangles of different sizes and colours	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14 TG b8Pg2-11	Written exercise	
6		Square roots of numbers	By the end of the lesson the learner should be able to workout the square root of perfect square numbers	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstrat	Rectangles, circles, triangles of different sizes and	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14	Filling in the table	

						ion -Discussion	colours	TG b8Pg2-11		
	7		Square and square root of numbers	By the end of the lesson the learner should be able to work out square numbers and square root of perfect squares	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Objects like tins, books, bottles, pictures, of different size	PM PB8 Pg1-16 TG 8Pg1-7 NPM PB8 Pg3-14 TG b8Pg2-11	Working out a problem Written exercise	
3	1	Fractions	Conversion	By the end of the lesson the learner should be able to convert fraction to decimals	- Explanation -Working out -demonstration -Divide	- Explanation -Working out - demonstration -Divide	Objects like tins, books, bottles, pictures, of different size	PM PB8 Pg16-30 TG 8Pg7-11 NPMPB8Pg14-22 TG b8Pg8-12	Written exercise	
	2		Conversion	By the end of the lesson the learner should be able to convert decimal to fraction	- Explanation -Working out -demonstration -Divide	- Explanation -Working out - demonstration	Objects that have smooth or rough texture like wood, paper,	PM PB8 Pg16-30 TG 8Pg7-11 NPMPB8Pg14-22	Filling in the table	

					ion -Divide	glass, soil, mirror, leaves, etc.	TG b8Pg8-12		
3		Conversi on	By the end of the lesson the learner should be able to convert fraction to percentage	<ul style="list-style-type: none">• Identifying• Matching• Comparing- Explanation -Working out -demonstration -Discussion	<ul style="list-style-type: none">• Identifying• Matching• Comparing- Explanation -Working out - demonstrat ion -Discussion	Objects that have smooth or rough texture like wood, paper, glass, soil, mirror, Leaves, etc.	PM PB8 Pg16- 30 TG 8Pg7-11 NPMPB8Pg14 -22 TG b8Pg8-12	Worki ng out a proble m	
4		Conversi on	By the end of the lesson the learner should be able to percentage to fractions	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstrat ion -Discussion	Chart	PM PB8 Pg16- 30 TG 8Pg7-11 NPMPB8Pg14 -22 TG b8Pg8-12	Writte n exerci se	

5		Conversion	By the end of the lesson the learner should be able to work out squawroot of fraction involving perfect squares	<ul style="list-style-type: none"> - Explanation -Working out -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Working out - demonstration -Discussion 	Chart	PM PB8 Pg16-30 TG 8Pg7-11 NPM PB8Pg14-22 TG b8Pg8-12	Written exercise	
6	Decimals and percentage	Conversion of decimal to fraction	By the end of the lesson the learner should be able to convert non-recurring decimal to fraction	<ul style="list-style-type: none"> - Explanation -Working out -demonstration -Conversion 	<ul style="list-style-type: none"> - Explanation -Working out - demonstration -Conversion 	place value chart	PM PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b8Pg12-18	Filling in the table	
7		Conversion of decimal to fraction	By the end of the lesson the learner should be able to convert fraction to decimal	<ul style="list-style-type: none"> - Explanation -Working out -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Working out - demonstration -Discussion 	place value chart	M PB8 Pg31-52 TG 8Pg11-16 NPM PB7Pg2241 TG b8Pg12-18	Working out a problem	

4	1		Conversion of decimal to fraction	By the end of the lesson the learner should be able to convert fraction to decimal	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	place value chart	M PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b8Pg12-18	Written exercise	
	2	Percentages	Conversion	By the end of the lesson the learner should be able to convert percentage into fraction	- Explanation -Conversion -demonstration -Discussion	- Explanation -Conversion - demonstration -Discussion	Conversion chart Chalk board layout	M PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b8Pg12-18	Written exercise	
	3		Conversion	By the end of the lesson the learner should be able to convert fraction into percentage.	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Multiplication table	M PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b8Pg12-18	Filling in the table	

1		Conversion	By the end of this topic, the pupils should be convert decimal into percentage	<ul style="list-style-type: none"> - Explanation -Working out -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Working out - demonstration -Discussion 	Multiplication table	M PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b7Pg12-18	Working out a problem	
2		Conversion	By the end of this topic, the pupils should be able to convert percentage into decimals	<ul style="list-style-type: none"> - Explanation -Working out -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Working out - demonstration -Discussion 	Multiplication table	M PB8 Pg31-52 TG 8Pg11-16 NPM PB8Pg2241 TG b8Pg12-18	Written exercise	
3	OPERATION ON WHOLE NUMBER Note :in jkf is included in first topic	Whole numbers Addition	By the end of this topic, the pupils should be able to add whole numbers by whole numbers correctly	<ul style="list-style-type: none"> - Explanation -Addition -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Addition - demonstration -Discussion 	Multiplication table	M PB8 Pg31-16 TG 8Pg1-7 NPM PB8Pg2-18 TG b8Pg1-8	Written exercise	

4		subtraction	By the end of this topic, the pupils should be able to subtract whole numbers by whole numbers correctly	<ul style="list-style-type: none"> - Explanation -Subtraction -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation - Subtraction - demonstration -Discussion 	Multiplication table	M PB8 Pg31-16 TG 8Pg1-7 NPM PB8Pg2-18 TG b8Pg1-8	Filling in the table	
5		Multiplication	By the end of this topic, the pupils should be able to multiply whole number by whole numbers correctly	<ul style="list-style-type: none"> - Explanation -Multiplication -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation - Multiplication - demonstration -Discussion 	Multiplication table	M PB8 Pg31-16 TG 8Pg1-7 NPM PB8Pg2-18 TG b8Pg1-8	Working out a problem	
6		Division	By the end of this topic, the pupils should be able to divide whole numbers by up to 3-digit numbers	<ul style="list-style-type: none"> - Explanation -Division -demonstration -Discussion 	<ul style="list-style-type: none"> - Explanation -Division - demonstration -Discussion 	Multiplication table	M PB8 Pg31-16 TG 8Pg1-7 NPM PB8Pg2-18 TG b8Pg1-8	Written exercise	

	7		Mixed exercise	By the end of the lesson the learner should be able to do a revision exercise on the work covered.	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Multiplication table	M PB8 Pg31-16 TG 8Pg1-7 NPM PB8Pg2-18 TG b8Pg1-8	Written exercise	
5	1		Combined operation	By the end of this topic, the pupils should be able to work out problems involving combined operation in whole numbers	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Multiplication table	PM PB8 Pg43 TG 8Pg34 NPM PB8 Pg TG b7Pg38	Filling in the table	
	2		Number sequence	By the end of this topic, the pupils should be able to recognize and identify number sequence involving whole numbers	- Explanation -addition -demonstration -Discussion	- Explanation -addition - demonstration -Discussion	Multiplication table	M PB8 Pg17-30 TG 8Pg7-11 NPM PB8Pg18-31 TG b8Pg8-17	Working out a problem	

3	Fraction	Addition	By the end of this topic, the pupils should be able to work out addition of fraction by fraction	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Place value table	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Written exercise	
4		Subtraction	By the end of this topic, the pupils should be able to work out subtraction of fraction by fraction	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Chalkboard layout	P M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Written exercise	
5		Multiplication	By the end of this topic, the pupils should be able to work out multiplication of fraction by fraction	- Explanation -Working out -Multiplication -Discussion	- Explanation -Working out - Multiplication -Discussion	Place value table	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Filling in the table	

	6		Division	By the end of this topic, the pupils should be able to work out division of fraction by fraction	- Explanation -Working out -demonstration -Division	- Explanation -Working out - demonstration -Division	Chalkboard layout	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Working out a problem	
	7		Combined operation	By the end of this topic, the pupils should be able to work out combined operation involving fraction	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Place value table	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Written exercise	
6	MID TERM EXAMINATIONS									
7	1		Number sequence	By the end of this topic, the pupils should be able to work out number sequence involving fraction	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Chalkboard layout	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Filling in the table	

					-Discussion				
2		Revision	By the end of the lesson the learner should be able to do a revision exercise on the work covered.	- Explanation -Working out -demonstration -revision	- Explanation -Working out - demonstration -revision	Place value table	M PB8 Pg17-30 TG 8Pg7-11 NPMPB8Pg18-31 TG b8Pg8-17	Working out a problem	
3	Decimals	Addition	By the end of the lesson the learner should be able to work out addition involving decimal and decimals	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	Place value table	M PB8 Pg30-52 TG 8Pg11-17 NPMPB8Pg31-49 TG b8Pg817-20	Written exercise	
4		Subtraction	By the end of the lesson the learner should be able to work out subtraction involving decimal and decimals	- Explanation -subtraction -demonstration -Discussion	- Explanation - subtraction - demonstration	Chalkboard layout	M PB8 Pg30-52 TG 8Pg11-17 NPMPB8Pg31-49 TG b8Pg817-	Written exercise	

					-Discussion		20		
5		Multiplication	By the end of the lesson the learner should be able to work out multiplication involving decimal and decimals	- Explanation -multiplication -demonstration -Discussion	- Explanation - multiplication - demonstration -Discussion	Place value table	M PB8 Pg30-52 TG 8Pg11-17 NPMPB8Pg31-49 TG b8Pg817-20	Filling in the table	
6		Division	By the end of the lesson the learner should be able to work out division involving decimal and decimals	- Explanation -dividing -demonstration -Discussion	- Explanation -dividing - demonstration -Discussion	Chalkboard layout	M PB8 Pg30-52 TG 8Pg11-17 NPMPB8Pg31-49 TG b8Pg817-20	Working out a problem	
7			By the end of the lesson the learner should be able to work out combined operation involving decimal	- Explanation -Working out -demonstration -Discussion	- Explanation -Working out - demonstration	Place value table	M PB8 Pg30-52 TG 8Pg11-17 NPMPB8Pg31-49 TG b8Pg817-	Written exercise	

						-Discussion		20		
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WEEK	LESSON	TOPIC	SUB-TOPIC	OBJECTIVES	TEACHER'S ACTIVITIES	LEARNER'S ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	ASSESSMENT	REMARKS
8	1	Percentage	Percentage increase	By the end of the lesson the learner should be able to work out problems involving percentage increase	-- Explanation -Working out - demonstration -Discussion	-- Explanation -Working out - demonstration -Discussion	-Objects like tins, books, pencils, cups, pictures, etc	M PB8 Pg30-52 TG 8Pg11-17 NMPB8Pg31-49 TG b8Pg817-20	Written exercise	
	2		Percentage decrease	By the end of the lesson the learner should be able to work out problems involving percentage decrease	- Explanation -Working out - demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	- percentage chart	M PB8 Pg30-52 TG 8Pg11-17 NMPB8Pg31-49 TG b8Pg817-20	Filling in the table	

3		Sequence in decimal	By the end of the lesson the learner should be able to work out problems involving sequence in decimals	- Explanation -Working out - demonstration -Discussion	- Explanation -Working out - demonstration -Discussion	A CHART	M PB8 Pg30-52 TG 8Pg11-17 NMPB8Pg31-49 TG b8Pg17-20	Working out a problem	
4	GEOMETRY	Working out problems (Cm, mm)	By the end of the lesson the learner should be able to work out problems involving units of length (MM,CM)	- Explanation -Working out -Drawing -Discussion -measuring	- Explanation -Working out -Drawing -Discussion -measuring	Coloured Manila cards (squares, triangles, circles), books, beads,	M PB8 Pg46-86 TG 8Pg21-36 NMPB8Pg49-80 TG b8Pg20-40	Written exercise	
5			By the end of the lesson the learner should be able to work out problems involving conversion of units of length(dm, Dm)	-Identifying Explanation -Working out -Drawing -Discussion measuring	-Identifying Explanation -Working out -Drawing -Discussion measuring	Manila cards (squares, triangles, circles), books, beads,	M PB8 Pg46-86 TG 8Pg21-36 NMPB8Pg49-80 TG b8Pg20-40	Written exercise	

	6			By the end of the lesson the learner should be able to work out problems involving conversion of units of length(Hm, Km)	Identifying Explanation -Working out -Drawing -Discussion	Identifying Explanation -Working out -Drawing -Discussion	Rectangle s, circles, triangles of different sizes and colours	M PB8 Pg46-86 TG 8Pg21-36 NMPB8Pg49-80 TG b8Pg20-40	Filling in the table	
	7		Convertin g units of length	By the end of the lesson the learner should be able to work out problems involving conversion of units of length(mm, cm, dm, Dm,	Drawing -Discussion Measuremen t -conversion	Drawing -Discussion Measureme nt -conversion	Geometric al set Rulers String	M PB8 Pg46-86 TG 8Pg21-36 NMPB8Pg49-80 TG b8Pg20-40	Worki ng out a proble m	
									Writte n	

9									exerci se	
	1			By the end of the lesson the learner should be able to work out problems involving conversion of units of length(mm, cm, dm, Dm, Hm, Km,)	Explanation -Working out -Drawing -Discussion measurement	Explanation -Working out -Drawing -Discussion measurement	Rectangle s, circles, triangles of different sizes and colours	M PB8 Pg46-86 TG 8Pg21-36 NPMPB8Pg49-80 TG b8Pg20-40	Writte n exerci se	
	2		add	By the end of the lesson the learner should be able to work out addition problems involving length in (mm, cm, dm, Dm, Hm, Km,)	Explanation -Working out -Drawing -Discussion measurement	Explanation -Working out -Drawing -Discussion measurement	Geometric al set Rulers String	M PB8 Pg46-86 TG 8Pg21-36 NPMPB8Pg49-80 TG b8Pg20-40	Filling in the table	
	3		Subtractio n	By the end of the lesson the learner should be able to work out subtraction problems involving length in (mm, cm, dm, Dm, Hm, Km,)	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Geometric al set Rulers String	M PB8 Pg46-86 TG 8Pg21-36 NPMPB8Pg49-80 TG b8Pg20-40	Worki ng out a proble m	

					measuremen t	measureme nt				
	4		Division	By the end of the lesson the learner should be able to work out division problems involving length in (mm, cm, dm, Dm, Hm, Km,)	Explanation -Working out -Drawing -Discussion measuremen t	Explanation -Working out -Drawing -Discussion measureme nt	Geometric al set Rulers String	M PB8 Pg46- 86 TG 8Pg21-36 NMPB8Pg49 -80 TG b8Pg20-40	Writte n exerci se	
	5									
	6		Multiplica tion	By the end of the lesson the learner should be able to work out multiplication problems involving length in (mm, cm, dm, Dm, Hm, Km,)	Explanation -Working out -Drawing -Discussion measuremen t	Explanation -Working out -Drawing -Discussion measureme nt	Geometric al set Rulers String	M PB8 Pg46- 86 TG 8Pg21-36 NMPB8Pg49 -80 TG b8Pg20-40	Writte n exerci se	
	7		Perimeter	By the end of the lesson the learner should be able to work out problems involving perimeter	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Objects like tins, books, bottles, pictures, of different size	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80 -123 TG b8Pg40-43	Filling in the table Worki ng out a proble	

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10	1		Perimeter and circumference	By the end of the lesson the learner should be able to work out problems involving circumference	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Objects like tins, books, bottles, pictures, of different size	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Written exercise	
	2			By the end of the lesson the learner should be able to work out perimeter involving quadrilateral	-Drawing -Discussion • Matching objects according	• Identifying the texture of an Explanation -Working out -Drawing -	Objects that have smooth or rough texture like wood, etc.	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Written exercise	
	3			By the end of the lesson the learner should be able to work out problems involving units of length in real life	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Objects that have smooth paper, glass, soil, mirror, Leaves, etc.	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Filling in the table	

4		Area	By the end of the lesson the learner should be able to workout the area of a circle	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Rectangle s, circles, triangles of different sizes and colours	P M PB8 Pg88-114 TG 8Pg38-41 NMPMB8Pg80 -123 TG b8Pg40-43	Worki ng out a proble m	
5			By the end of the lesson the learner should be able to work out problems involving area of a circle using the formulae	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Drawing -Discussion	Rectangle s, circles, triangles	P M PB8 Pg88-114 TG 8Pg38-41 NMPMB8Pg80 -123 TG b8Pg40-43	Writte n exerci se	
6		Trapezium	By the end of the lesson the learner should be able to calculate the area of the of a trapezium	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -Discussion	of different sizes	P M PB8 Pg88-114 TG 8Pg38-41 NMPMB8Pg80 -123 TG b8Pg40-43		
7		Parallelogram	By the end of the lesson the learner should be able to calculate the area of parallelograms	Explanation -Working out	Explanation -Working out	Rectangle s, circles, triangles	P M PB8 Pg88-114 TG 8Pg38-41 NMPMB8Pg80	Writte n exerci se	

					-Answering -Discussion	-Answering -Discussion		-123 TG b8Pg40-43		
11	1		Area of a border	By the end of the lesson the learner should be able to work out problems involving area of a border	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -Discussion	of different sizes	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Filling in the table	
	2		Combined shape	By the end of the lesson the learner should be able to work out problems involving area combined shape	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -Discussion	Rectangle s, circles, triangles	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Working out a problem	
	3		Surface area of cuboids	By the end of the lesson the learner should be able to work out problems involving surface area of cuboids	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -Discussion	of different sizes	P M PB8 Pg88-114 TG 8Pg38-41 NMPB8Pg80-123 TG b8Pg40-43	Written exercise	
	4 -		Surface area of	By the end of the lesson the learner should be	Explanation -Working	Explanation -Working	CYLINDER	P M PB8 Pg88-114	Written	

	7		cylinder	able to work out problems involving surface area of cylinders	out -Answering -Discussion	out -Answering -Discussion		TG 8Pg38-41 NPMPB8Pg80-123 TG b8Pg40-43	exerci se	
12	FIRST KCPE TRIAL									
13	REVISION									
14	EXAMINATIONAND CLOSING THE SCHOOL									

MATHEMATICS SCHEMES OF WORK
 STANDARD EIGHT TERMII
 YEAR 2014

References

- 1.New progressive primary mathematics teacher's guide book 8
- 2.New progressive primary mathematics pupil's book 8
- 3.Primary mathematics pupil's book 8
- 4.Primary mathematics teacher's guide book 8

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1	REPORTING AND PREPARATIONS									
2	1	VOLUME CAPACITY AND MASS Volume	VOLUME OF PRISMS	By the end of the lesson the learner should be able to identify the cross-section are of a regular prism	-- Explanation -Working out -demonstration -Discussion	Explanation Explanation -Working out -Answering -calculating -	-Objects like tins, books, pencils, cups, pictures, etc	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise	
	2		Volume of cubes	By the end of the lesson the learner should be able to work out problems involving volume of cubes by stacking	- Explanation -Working out -demonstration -Discussion	-Working out Explanation -Answering -calculating	-Objects like tins, -books, pencils, - cups, pictures, etc	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136	Filling in the table	

					-measuring ring		TG b8Pg43-47		
3		Volume of cubes and cuboids	By the end of the lesson the learner should be able to work out problems involving volume of cuboids	- Explanation -Working out -demonstration -Discussion	Explanation Measuring Working out	Coloured Manila cards (squares, triangles, books, beads,	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Working out a problem	
4		Cylinder	By the end of the lesson the learner should be able to work out volume of cylinder through pilling coins	- Explanation -Working out -Drawing -Discussion -measuring	-Working out	Coloured Manila circles (coins circles), books, beads,	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise	
5		Cylinder	By the end of the lesson the learner should be able to work out volume of cylinder using the formulae	-Identifying Explanation -Working out -Drawing -Discussion measuring	Explanation -Working out -Answering -calculating -measuring	circles, colours	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise	
6		Cylinder	By the end of the lesson the learner should be able to work out volume	Identifying	Explanation	Coloured Manila	P M PB8 Pg114-130	Filling in the	

				of cylinder using the formulae	Explanation -Working out -Drawing -Discussion	-Working out -Answering -calculating -measuring	circles (coins circles), books, beads,	TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	table	
	7		Capacity	By the end of the lesson the learner should be able to workout problems involving capacity of cubes	Drawing -Discussion Measurement -conversion	Explanation -Working out -Answering -calculating	Rectangles, circles, triangles of different sizes and	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-	Working out a problem	
3	1		Capacity of cuboids	By the end of the lesson the learner should be able to workout problems involving capacity of cuboids	Explanation -Working out -Drawing -Discussion measurement	Identifying sizes of objects. group objects according to size Matching cuboids	Objects like tins, books, bottles, pictures, of different size	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise Written exercise	
	2		Capacity cylinder	By the end of the lesson the learner should be able to workout problems involving	Explanation -Working out -Drawing	Explanation -Working out -Answering	Objects like tins, books, bottles, pictures, of different	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-	Filling in the table	

			capacity of cylinders	-Discussion measurement	-calculating -measuring	size	136 TG b8Pg43-47		
3		Capacity and volume	By the end of the lesson the learner should be able to recognize and identify the relationship between capacity and volume	Explanation -Working out -Drawing -Discussion measurement	Explanation -Working out -Answering -calculating -measuring	Objects that have smooth or rough texture like wood,	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Working out a problem	
4	Mass	Mass in Grams	By the end of the lesson the learner should be able to workout problems involving mass in grams	Explanation -Working out -Drawing -Discussion measurement	• Explanation -Working out -Answering -calculating -measuring	Objects that have smooth or rough texture like wood,	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise	
5		Kilograms	By the end of the lesson the learner should be able to workout problems involving mass in kilograms	Explanation -Working out -Drawing -Discussion measurement	Explanation -Working out -Answering -calculating -measuring	Scale	P M PB8 Pg114-130 TG 8Pg41-46 NPMPB8Pg123-136 TG b8Pg43-47	Written exercise	
6		Tonnes	By the end of the lesson the learner should be	Explanation	Explanation	Scale	P M PB8 P1130-	Filling in the	

			able to workout problems involving mass in tonnes	-Working out -Drawing -Discussion	-Working out -Answering -calculating -measuring		154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	table	
7	MONEY	PROFIT AND LOSS	By the end of the lesson the learner should be able to workout problems involving profit		Explanation -Working out -Answering -calculating		P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Working out a problem	
1			By the end of the lesson the learner should be able to workout problems involving loss	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Answering -calculating		P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Written exercise	
2		Percentage profit	By the end of the lesson the learner should be able to workout problems involving percentage profit	• Identifying the texture of an Explanation -Working out -Drawing	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158	Written exercise	

4								TG b8Pg47-50		
	3		Percentage loss	By the end of the lesson the learner should be able to workout problems involving percentage loss	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NMPB8Pg136-158 TG b8Pg47-50	Filling in the table	
	4		The bill	By the end of the lesson the learner should be able to workout problems involving bills in buying and selling	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NMPB8Pg136-158 TG b8Pg47-50	Working out a problem	
	5		Discount	By the end of the lesson the learner should be able to workout problems involving discounts	Explanation -Working out -Drawing -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NMPB8Pg136-158 TG b8Pg47-50	Written exercise	
	6-7		Percentage discount	By the end of the lesson the learner should be able to workout problems involving	Explanation -Working out	Explanation -Working out	Multiplication table	P M PB8 P1130-154	Written exercise	

				percentage discount	-Answering -Discussion	-Answering -calculating		TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	e	
5	1		Commission	By the end of the lesson the learner should be able to workout problems involving commission	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Filling in the table	
	2		Percentage commission	By the end of the lesson the learner should be able to workout problems involving percentage commission	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Working out a problem	
	3		Simple interest	By the end of the lesson the learner should be able to workout problems involving simple interest	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Written exercise	

4		Simple interest	By the end of the lesson the learner should be able to workout problems involving simple interest	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Written exercise	
5		Hire purchase	By the end of the lesson the learner should be able to workout problems involving hire purchase	Explanation -Working out -Answering -Discussion	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Filling in the table	
6		Hire purchase	By the end of the lesson the learner should be able to workout problems involving hire purchase	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -calculating	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Working out a problem	
7		Compound interest	By the end of the lesson the learner should be able to workout problems involving compound interest using simple interest	Explanation -Working out -Answering	Explanation -Working out -Answering	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-	Written exercise	

				per unit time	Revision	-calculating		158 TG b8Pg47-50		
6	1		Compound interest	By the end of the lesson the learner should be able to workout problems involving compound interest using simple interest per unit time	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table	P M PB8 P1130-154 TG 8Pg46-49 NPMPB8Pg136-158 TG b8Pg47-50	Written exercise	
	2	Postal charges	Inland postal charges	By the end of the lesson the learner should be able to workout problems involving inland postal charges	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table Postal order	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	Filling in the table	
	3		International postal charges	By the end of the lesson the learner should be able to workout problems involving international postal charges	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	Working out a problem	
	4		International postal	By the end of the lesson the learner should be	Explanation	Explanation	Multiplication table	P M PB8 P154-170	Written	

			charges	able to workout problems involving international postal charges	-Working out -Answering Revision	-Working out -Answering -Discussion Demonstration		TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	exercis e	
5			Money order	By the end of the lesson the learner should be able to workout problems involving money order	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Answering -Discussion Demonstration	Multiplicati on table Money order	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	Writte n exercis e	
6			Postal orders	By the end of the lesson the learner should be able to workout problems involving postal orders	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplicati on table	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	Filling in the table	
7			Telegram	By the end of the lesson the learner should be able to write a telegram	Lead in discussion Demonstrate Asking questions	Explanation -Working out -Answering -Discussion	Multiplicati on table	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179	Worki ng out a proble m	

					explaining	Demonstration		TG b8Pg50-61		
7	MID TERM EXAMINATION									
8	1		Telegram	By the end of the lesson the learner should be able to workout problems involving telegrams	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table telegram	P M PB8 P154-170 TG 8Pg49-56 NPMPB8Pg158-179 TG b8Pg50-61	Written exercise	
	2	TIME AND SPEED AND TEMPERATURE	Distance	By the end of the lesson the learner should be able to workout distance given time and speed	Explanation -Working out -Answering	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	
	3		Time	By the end of the lesson the learner should be able to workout time given speed and distance	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table Travel tables	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Working out a problem	
	4		Speed	By the end of the lesson the learner should be	Lead in discussion	Explanation	Multiplication	P M PB8 P170-	Written	

				able to workout speed given time and distance	Demonstrate Asking questions explaining	-Working out -Answering -Discussion Demonstration	n table Travel tables clock	185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	exercis e	
5				By the end of the lesson the learner should be able to workout problems involving speed, time and distance	Explanation -Working out -Answering Revision	Explanation -Working out -Answering -Discussion Demonstration	Multiplicatio n table Travel tables	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Writte n exercis e	
6		Conversion 12h-24h system		By the end of the lesson the learner should be able to workout problems involving converting units of time	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Answering -Discussion conversion	Multiplicatio n table clock	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	
				By the end of the lesson the learner should be able to workout problems involving converting units of time	Explanation -Working out -Answering Revision	Working out -Answering -Discussion conversion	clock	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188	Worki ng out a proble m	

								TG b8Pg6165		
	7	T	Average speed	By the end of the lesson the learner should be able to workout problems involving average speed given time and distance	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Answering -Discussion conversion	Multiplication table	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
9	1	TEMPERATURE	Direct comparison	By the end of this topic, the pupils should be able to compare temperature using hotter, warmer, colder and same as	Explanation -Working out -Answering Revision	Comparing -Answering -Discussion Demonstration	Multiplication table thermometer	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
	2			By the end of the lesson the learner should be able to do a revision exercise on the work covered.	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Answering -Discussion Demonstration	Multiplication table	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	
	3		Degree Celsius (°C)	By the end of the lesson the learner should be able to recognise and identify degree Celsius	Explanation -Working out	Explanation -Working out	Multiplication table	P M PB8 P170-185	Working out a problem	

			as a unit of measuring temperature	-Answering Revision	-Answering -Discussion Demonstration	Thermometer	TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	m	
4		Degree Celsius (°C)	By the end of the lesson the learner should be able to recognise and identify degree Celsius as a unit of measuring temperature	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Discussion Demonstration	Multiplication table Wood cutting	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
5		Degree Celsius (°C)	By the end of the lesson the learner should be able to recognise and identify degree Celsius as a unit of measuring temperature	Explanation -Working out -Answering Revision	Explanation -Working out -Discussion Demonstration	Multiplication table	P P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
6		Degree Celsius (°C)	By the end of the lesson the learner should be able to recognise and identify degree Celsius as a unit of measuring temperature	Lead in discussion Demonstrate Asking questions explaining	Explanation -Working out -Discussion Demonstration	Multiplication table Drawing on a chart	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	

	7		Degree Celsius (°C)	By the end of the lesson the learner should be able to recognise and identify degree Celsius as a unit of measuring temperature		Explanation -Working out -Discussion Demonstration	Multiplicati on table	P M PB8 P170-185 TG 8Pg56-60 NPMPB8Pg179-188 TG b8Pg6165	Worki ng out a proble m	
WEEK	LESSON	TOPIC	SUB-TOPIC	OBJECTIV ES	TEACHER' S ACTIVITIE S	TEACHER' S ACTIVITIE S	LEARNING / TEACHING RESOURC ES	REFERENC ES	ASSESME NT	REMARKS
10	1	GEOMETRY Come after algebra in jkf	Constructi on of triangle	By the end of the lesson the learner should be able to construct an isosceles triangle using a ruler and a pair of compasses	- Explanatio n -Working out - Constructi on - Discussion Demonstra tion	- Explanatio n -Working out - Constructi on - Discussion Demonstra tion	-Objects like tins, books, pencils, cups, pictures, etc	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
	2		Constructi on of	By the end of the	Explanatio n	Explanatio n	-Objects like tins, -	P M PB8 P46-68	Filling in the table	

			triangle	lesson the learner should be able to construct a equilateral triangle using a ruler and a pair of compasses	-Working out - Constructi on - Discussion Demonstra tion	-Working out - Constructi on - Discussion Demonstra tion	books, pencils, - cups, pictures, etc	TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165		
	3		Circumscri be	By the end of the lesson the learner should be able to construct a circles passing through vertices using a ruler and a pair of compasses	-- Explanatio n -Working out - Constructi on - Discussion Demonstra tion	-- Explanatio n -Working out - Constructi on - Discussion Demonstra tion	Coloured Manila cards (squares, triangles, circles), books, beads,	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Working out a problem	
	4		Perpendicu lar	By the end of the lesson the learner	-- Explanatio n -Working	-- Explanatio n -Working	Geometric al set	P M PB8 P46-68 TG 8Pg23-	Written exercise	

				should be able to construct a perpendicular from a point given a line	out - Constructi on - Discussion Demonstra tion	out - Constructi on - Discussion Demonstra tion		46 NPMPB8Pg179-188 TG b8Pg6165		
5		Inscribing	By the end of the lesson the learner should be able to construct a circles touching the three sides of a triangle	-- Explanatio n -Working out - Constructi on - Discussion	-- Explanatio n -Working out - Constructi on - Discussion	Geometric al set	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Written exercise		
6		Pythagorea n relationshi p	By the end of the lesson the learner should be able to recognise and identify	- Explanatio n -Working out -solving equation	- Explanatio n -Working out -solving equation	Coloured Manila cards String pegs	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188	Filling in the table		

				Pythagorean relationship	- Discussion Demonstration	- Discussion Demonstration		TG b8Pg6165		
	7			By the end of the lesson the learner should be able to recognise and identify Pythagorean relationship	- Explanation -Working out -solving equation - Discussion Demonstration	- Explanation -Working out -solving equation - Discussion Demonstration	Rectangles , circles, triangles of different sizes and colours	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Working out a problem	
	1		Parallelograms	By the end of the lesson the learner should be able to construct a parallelogram using a ruler and a pair of	Explanation -Working out -Answering Revision	Explanation -Working out -Answering Revision	Geometrical set	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	

				compasses						
	2		Rhombuses	By the end of the lesson the learner should be able to construct a rhombuses using a ruler and a pair of compasses	Lead in discussion Demonstrate Asking questions explaining	Lead in discussion Demonstrate Asking questions explaining	Geometrical set	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	
	3			By the end of the lesson the learner should be able to work out problems involving parallelogram, rhombuses and trapezium	Explanation -Working out -Answering Revision	Explanation -Working out -Answering Revision	Geometrical set	P M PB8 P46-68 TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165	Working out a problem	
	4		1	By the end of the lesson the	Identifying shapes of	Identifying shapes of	Rectangles , circles,	P M PB8 P46-68	Written exercise	

				learner should be able to revise the topic geometry and answer revision question	objects Matching objects according to shapes	objects Matching objects according to shape	triangles of different sizes and colours	TG 8Pg23-46 NPMPB8Pg179-188 TG b8Pg6165		
5	ALGEBRA <u>Note in jkf</u> <u>It comes after decimal</u>	Forming	By the end of the lesson the learner should be able to form a simple algebraic equation	Explanation -Working out -solving equation - simplifying	Explanation -Working out -solving equation - simplifying	A chart	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Written exercise		
6			By the end of the lesson the learner should be able to form a simple algebraic	Explanation -Working out -solving equation	Explanation -Working out -solving equation		P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188	Filling in the table		

				equation	- simplifying	- simplifying		TG b8Pg6165		
	7		Simplifyin g	By the end of the lesson the learner should be able to simplify an algebraic equation	Explanatio n -Working out -solving equation - simplifying	Explanatio n -Working out -solving equation - simplifying		P M PB8 P53-63 TG 8Pg18- 20 NPMPB8P g179-188 TG b8Pg6165	Working out a problem	
12	REVISION									
13	EXAMINAT ION									
14	MARKNG AND CLOSING THE SCHOOL									

MATHEMATICS SCHEMES OF WORK

STANDARD EIGHT TERM III

YEAR 2014

References

- 1.New progressive primary mathematics teacher's guide book 8
- 2.New progressive primary mathematics pupil's book 8
- 3 Primary mathematics pupil's book 8
- 4.Primary mathematics teacher's guide book 8

WEEK	LESSON	TOPIC	SUB-TOPIC	OBJECTIVES	TEACHER'S ACTIVITIES	LEARNER'S ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	ASSESSMENT	REMARKS
1	REPORTING AND PREPARATION									
2	1	Algebra	Form and Simplifying	By the end of the lesson the learner should be able to form and simplify an algebraic equation	- Explanation -Working out - Construction	-Grouping like terms -Working out -solving	-Objects like tins, books, pencils, cups, pictures,	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188	Written exercise	

					-Discussion Demonstration	equation -simplifying	etc	TG b8Pg6165		
2		Substitution	By the end of the lesson the learner should be able to work out the value of algebraic equation through substitution	Explanation -Working out - Construction -Discussion Demonstration	-Grouping objects - arranging - Explanation -Working out -solving equation -simplifying	-Objects like tins, - books, pencils, - cups, pictures, etc	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table		
3		Substitution	By the end of the lesson the learner should be able to work out the value of algebraic equation through substitution	-- Explanation -Working out - Construction -Discussion Demonstration	- Explanation -Working out -solving equation -simplifying	Coloured Manila cards (squares, triangles, circles), books, beads,	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Working out a problem		

4		Solving	By the end of the lesson the learner should be able to form and solve algebraic expression with one unknown	-- Explanation -Working out - Construction -Discussion Demonstration	Explanation -Working out -solving equation -simplifying	Coloured Manila cards (squares, triangles, circles), books, beads,	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
5			By the end of the lesson the learner should be able to form and solve algebraic expression with one unknown	-- Explanation -Working out - Construction -Discussion	Explanation -Working out -solving equation -simplifying	Rectangles, circles, triangles of different sizes and	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
6		Simplifying in equalities	By the end of the lesson the learner should be able to simplify inequality with one unknown	- Explanation -Working out -solving equation -Discussion	Explanation -Working out -solving equation -simplifying	Rectangles, circles, triangles of different sizes and colours	P M PB8 P53-63 TG 8Pg18-20 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	

					Demonstration					
	7			By the end of the lesson the learner should be able to simplify inequality with one unknown	- Explanation -Working out -solving equation -Discussion Demonstration Explanation	Explanation -Working out -solving equation -simplifying	Objects like tins, books, bottles, pictures, of different size	P M PB8 P53-63 TG 8Pg18-20 NMPB8Pg179-188 TG b8Pg6165	Working out a problem	
3	1	AVERAGES TABLES AND GRAPHS	Median	By the end of the lesson the learner should be able to recognize and identify median	Lead in discussion Demonstrate Asking questions explaining	Identifying linear scale Explanation -Working out - representing data Drawing graph	Objects like tins, books, bottles, pictures, of different size	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	Written exercise	
	2		Mean	By the end of the lesson the learner	Explanation	Explanation	Explanation	P M PB8 P118-	Filling in the	

				should be able to work out a problem involving the mean	-Working out -Answering Revision	-Working out - representing data	-Working out - representin g data	232 TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	table	
3		The mode	By the end of the lesson the learner should be able to work out a problem involving the mode	Identifying shapes of objects Matching objects according to shapes	Explanation -Working out - representing data Calculating the mode	Explanation -Working out - representin g data	P M PB8 P118-232 TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	Worki ng out a proble m		
4		Median	By the end of the lesson the learner should be able to work out a problem involving the median	Rectangles, circles, triangles of different sizes and colours Explanation -Working	Explanation -Working out - representing data	Explanation -Working out - representin g data	P M PB8 P118-232 TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	Writte n exerci se		

				out -solving equation -simplifying					
5		Drawing graph from given data	By the end of the lesson the learner should be able to determine the appropriate scale for the graphs	Explanation -Working out -solving equation -simplifying	Explanation -Working out - representing data Drawing graph	Objects that have smooth or rough texture like wood,	P M PB8 P118-232 TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	Written exercise	
6		Interpreting tables	By the end of the lesson the learner should be able to read and interpret tables in real life situation	Explanation -Working out -solving equation -simplifying	• Explanation -Working out - representing data Drawing graph	Objects that have smooth or rough texture like wood,	P M PB8 P118-232 TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table	
7			By the end of the lesson the learner should be able to read and interpret	Explanation -Working	Explanation -Working	Chart	P M PB8 P118-232	Working out a problem	

			tables in real life situation	out -solving equation -simplifying	out - representing data Drawing graph		TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	m	
1		Bar graph	By the end of the lesson the learner should be able to read and interpret data on a bar graph	Explanation -Working out - representing data Drawing graph	Explanation -drawing Representin g data	Chart	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	Writte n exerci se	
2			By the end of the lesson the learner should be able to interpreting data on a graph	Explanation -drawing Representin g data	-Discussion -interpreting data -drawing	Chart	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	Writte n exerci se	
3		Pie chart	By the end of the lesson the learner should be able to reading and represent data on a	-Discussion -interpreting data	-Working out - representing	Chart	P M PB8 P118-232 TG 8Pg68-76	Filling in the table	

				pie chart	-drawing	data Drawing pie chart		NMPB8Pg179-188 TG b8Pg6165		
4	4			By the end of the lesson the learner should be able to interpret data on a pie chart	Explanation -Working out - representing data Drawing graph	-Conversion -Working out - representing data Drawing pie chart	Chart	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	Working out a problem	
	5		Travel graph	By the end of the lesson the learner should be able to read and interpret data on a travel graph	Explanation -drawing Representing data	Explanation -Working out - representing data Drawing graph	Chart	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179-188 TG b8Pg6165	Written exercise	
	6			By the end of the lesson the learner should be able to Present data on a travel graph	Explanation -Working out - representing	- Explanation -Working out -	Chart	P M PB8 P118-232 TG 8Pg68-76 NMPB8Pg179	Written exercise	

					data Drawing graph	representing data Drawing graph		-188 TG b8Pg6165		
	7		Line graph	By the end of the lesson the learner should be able to read and interpret data on a line graph	Explanation -drawing Representin g data	- Explanation -Working out - representing data Drawing graph	Chart	P M PB8 P118- 232 TG 8Pg68-76 NMPB8Pg179 -188 TG b8Pg6165	Filling in the table	
	1			By the end of the lesson the learner should be able to Present data on a line graph	-Discussion -interpreting data -drawing	-Explanation - demonstrati on -Discussion -Working out	Chart	P M PB8 P118- 232 TG 8Pg68-76 NMPB8Pg179 -188 TG b8Pg6165	Worki ng out a proble m	
5	2			By the end of the lesson the learner should be able to work out problems	Explanation -Working	Explanation -Discussion	Chart	P M PB8 P118- 232	Writte n exerci	

				involving arithmetic mean and mode in real life situation	out - representing data Drawing graph	-Working out -Conversion -Observation		TG 8Pg68-76 NPMPB8Pg179-188 TG b8Pg6165	se	
3	Scale drawing	Read and interpret diagrams drawn to scale	By the end of this topic, the pupils should be able to read and write scale	Explanation -drawing Representin g data	-Explanation -Discussion -drawing -Working out -Conversion	Chart	P M PB8 P186-193 TG 8Pg60-62 NPMPB8Pg179-188 TG b8Pg6165	Writte n exerci se		
4		Conversio n	By the end of this topic, the pupils should be able to convert linier scale from statement to ratio form	-Discussion -interpreting data -drawing	Explanation -Discussion - Demonstrati on -Working out -Conversion	Chart	P M PB8 P186-193 TG 8Pg60-62 NPMPB8Pg179-188 TG b8Pg6165	Filling in the table		
5			By the end of this topic, the	Explanation -Working	-Explanation -Discussion	Chart	P M PB8 P186-193	Worki ng out a		

				pupils should be able to convert linier scale from ratio form to statement	out - representing data Drawing graph	- Demonstrati on -Working out -Conversion		TG 8Pg60-62 NMPB8Pg179-188 TG b8Pg6165	proble m	
6				By the end of this topic, the pupils should be able to convert linier scale from statement to ratio form and vice versa	Explanation -drawing Representin g data	Explanation -Discussion -Working out -Conversion	Chart	P M PB8 P186-193 TG 8Pg60-62 NMPB8Pg179-188 TG b8Pg6165	Writte n exerci se	
7		Making scale drawing		By the end of this topic, the pupils should be able to make a scale drawing	-Discussion -interpreting data -drawing	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg162 TG 7Pg NPM PB7 Pg142 TG b7Pg	Writte n exerci se	
				. By the end of this topic, the pupils should be able to work out problems involving scale	Explanation -Working out - representing	Explanation -Discussion -Working out	Chart	PM PB7 Pg143 TG 7Pg97 NPM PB7 Pg143	Filling in the table	

				drawing	data Drawing graph	-Conversion -Observation		TG b7Pg95		
6	MID TERM EXAMINATIONS									
7	1		Mixed exercise	By the end of the lesson the learner should be able to do a revision exercise on the work covered	Explanation -drawing Representin g data	Explanation -Discussion -Working out -answering	Chart	PM PB7 Pg162 TG 7Pg NPM PB7 Pg162 TG b7Pg97	Writte n exerci se	
	2	Ratio and proportion	Ratio as a fraction	By the end of this topic, the pupils should be able to recognize and identify ratio as a fraction	-Discussion -interpreting data -drawing	Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg163 TG 7Pg98 NPM PB7 Pg161 TG b7Pg99	Writte n exerci se	
	3	Fraction	Ratio sharing	By the end of this topic, the pupils should be able to interpret and use ratio on sharing	Explanation -Working out - representing data	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg163 TG 7Pg103 NPM PB7 Pg161 TG b7Pg99	Filling in the table	

				Drawing graph					
4			By the end of this topic, the pupils should be able to interpret and use ratio on sharing	Explanation -drawing Representin g data	Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg164 TG 7Pg NPM PB7 Pg162 TG b7Pg100	Worki ng out a proble m	
5			By the end of this topic, the pupils should be able to work out problems involving ratio using unitary method	-Discussion -interpreting data -drawing	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg TG 7Pg NPM PB7 Pg163 TG b7Pg102	Writte n exerci se	
6		Ratio increase	By the end of this topic, the pupils should be able to interpret and use ratio in increase	Explanation -Working out - representing data Drawing graph	Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg163 TG 7Pg NPM PB7 Pg162 TG b7Pg	Writte n exerci se	
7			By the end of this topic, the	Explanation	-Explanation	Chart	PM PB7 Pg164	Filling in the	

				pupils should be able to interpret and use ratio in increase	-drawing Representing data	-Discussion -Working out -Conversion		TG 7Pg NPM PB7 161Pg102 TG b7Pg	table	
8	1		Ratio decrease	By the end of this topic, the pupils should be able to interpret and use ratio in decrease	-Discussion -interpreting data -drawing	Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg163 TG 7Pg NPM PB7 Pg163 TG b7Pg103	Working out a problem	
	2			By the end of this topic, the pupils should be able to interpret and use ratio in decrease	Explanation -Working out -representing data Drawing graph	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg164 TG 7Pg NPM PB7 Pg162 TG b7Pg	Written exercise	
	3			By the end of the lesson the learner should be able to do a revision exercise on the work covered.	Explanation -drawing Representing data	Explanation -Discussion -Working out	Chart	PM PB7 Pg TG 7Pg NPM PB7 Pg163	Written exercise	

					-Conversion		TG b7Pg104		
4		Direct proportion	By the end of the lesson the learner should be able to recognize and identify simple direct proportion	Explanation -Working out - representing data Drawing graph	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg TG 7Pg NPM PB7 Pg164 TG b7Pg103	Filling in the table	
5			By the end of the lesson the learner should be able to work out problems involving simple direct proportion	Explanation -drawing Representing data	Explanation -Discussion -Working out -Conversion	Chart	PM PB7 Pg TG 7Pg NPM PB7 Pg165 TG b7Pg		
6		Indirect proportion	By the end of the lesson the learner should be able to recognize and identify indirect proportion	-Discussion -interpreting data -drawing	-Explanation -Discussion -Working out -Conversion	Chart	PM PB7 168Pg162 TG 7Pg NPM PB7 Pg106 TG b7Pg105	Written exercise	
7			By the end of the lesson the learner should be able to	Explanation -Working	-Explanation -Discussion	Chart	PM PB7 Pg160 TG 7Pg	Filling in the	

				work out problems involving simple indirect proportion	out - representing data Drawing graph	-Working out -Conversion		NPM PB7 160Pg169 TG b7Pg106	table	
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WEEK	LESSON	TOPIC	SUB-TOPIC	OBJECTIVES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING ACTIVITIES	LEARNING/TEACHING RESOURCES	REFERENCES	
9	1		MODEL MAKING AND GEOMETRICAL PATTERN	By the end of the lesson the learner should be able to recognize and identify triangular based pyramid	Explanation -Discussion -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing Measuring	Geometrical set String Pair of scissors	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	2			By the end of the lesson the learner should be able to recognize and identify triangular based pyramid	-Explanation -Discussion -Working out -drawing Measuring	-Explanation -Discussion -Working out -drawing Measuring	Geometrical set	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	

3			By the end of the lesson the learner should be able to recognize and identify triangular based prism	Explanation -Discussion -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing Measuring	String	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
4			By the end of the lesson the learner should be able to recognize and identify square based pyramid	Explanation -Working out -drawing Measuring	Explanation -Discussion -drawing Measuring	Pair of scissors	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
5			By the end of the lesson the learner should be able to recognize and identify square based prism	Explanation -Discussion -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing Measuring	Geometrical set	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
6-7			. By the end of the lesson the learner should be able to make nets of square based pyramid	Explanation -Discussion -Working out	Explanation -Discussion -Working out	Geometrical set String Pair of	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-	

					-drawing Measuring	-drawing Measuring	scissors	188 TG b8Pg6165	
1 1	1			By the end of the lesson the learner should be able to make nets of square based prism	Explanation -Discussion -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing Measuring	Geometrical set	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	2			By the end of the lesson the learner should be able to make nets of triangular based pyramid	Explanation -Discussion -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing Measuring	String	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	3			By the end of the lesson the learner should be able to make nets of triangular based prism	Explanation -Discussion -drawing Measuring	Explanation -Discussion -Working out Measuring	Pair of scissors	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	4		Geometrical patterns	By the end of the lesson the learner should be	Explanation	Explanation	Geometrical set	P M PB8 P233-247	

				able to make geometrical patterns	-Working out -drawing Measuring	-Discussion -drawing Measuring		TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	5			By the end of the lesson the learner should be able to do a revision exercise on the work covered.	-Working out -drawing Measuring	Explanation -Discussion -Working out	String	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
	6-7			By the end of the lesson the learner should be able to do a revision exercise on the work covered.	Explanation -Working out -drawing Measuring	Explanation -Discussion -Working out -drawing	Geometrical set String Pair of scissors	P M PB8 P233-247 TG 8Pg77-79 NPMPB8Pg179-188 TG b8Pg6165	
1 2	REVISION								
1 3	EXAMINATION AND CLOSING THE SCHOOL								