

**MINISTRY OF GENERAL EDUCATION
SOUTHERN PROVINCE
SCHEMES OF WORK**

SUBJECT: MATHEMATICS

GRADE: 7

TERM: 1

YEAR: 2018

WEEK	TOPIC/CONTENT	GENERAL OUTCOMES	METHODS	L/T RESOURCES	REFERENCES
11	FRACTION ➤ Additions of the fractions ➤ Subtractions of the fractions	-Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ discussion	➤ oranges ➤ charts	Longman mathematics(pp) boo(1-5) oxford mathematicspp book pg 1-8 syllabus grade 7
2	FRACTION ➤ multiplication of fractions ➤ Division of fraction ➤ Practical problems involving	solve mathematical challenges in everyday life through problem solving -Develop algebraic,	➤ Group work ➤ Demonstration ➤ discussion	➤ charts	Longman mathematics(pp) boo(6-13) oxford mathematics book pg 9-17 Mathematics syllabus grade

	fractions ➤ assessment	geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams			7
3	DECIMAL NUMBERS ➤ addition of decimals ➤ subtraction of decimals ➤ multiplication of decimals	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ discussion	WALL CLOCK ➤ charts	Longman mathematics(pp) boo(14-19) oxford Mathematicspp book pg 18-28 Mathematics syllabus grade 7
4	DECIMAL NUMBERS ➤ Division of decimals ➤ Converting common fraction to decimals	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and	➤ Group work ➤ Demonstration ➤ discussion	WALL CLOCK ➤ charts	Longman mathematics(pp) boo(19-29) oxford mathematics pp book pg 28-35 Mathematics syllabus grade 7

	➤ Ordering fractions and decimals ➤ Using $>$, $<$ and $=$ to compare decimals ➤ assessment	arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams			
5	PERCENTAGES ➤ describe a percentage ➤ percentages and decimals ➤ percentages and common fraction	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ discussion	➤ charts	Longman mathematics(pp) boo(30-35) oxford mathematics pp book pg 36-40 mathematics syllabus grade 7
6	PERCENTAGES ➤ application (solving problems involving percentages) RATIO AND PROPORTION ➤ Ratio and	Solvemathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills	➤ Group work ➤ Demonstration ➤ discussion	➤ oranges ➤ charts labels of compassions package food stuff	Longman mathematics(pp) book oxford mathematics pp book pg 1-8 Mathematics syllabus grade 7

	➤ proportion ➤ Direct and inverse proportion	in -Mathematics. develop mathematical concepts on shapes and diagrams			
7	RATIO AND PROPORTION ➤ graphs illustrating direct and indirect proportion ➤ mid- term assessment	Solvemathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ discussion	➤ oranges ➤ charts ➤ models ➤ Chart of direct and indirect graphs ➤ Graph paper	Longman mathematics(pp) book(37) oxford math's pp book pg 56-60 math syllabus grade
8	SOCIAL AND COMMERCIAL ARITHMETIC -convert between local and foreign currencies	Solvemathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics.	➤ Group work ➤ Demonstration ➤ Discussion	➤ charts showing popular currencies	Longman mathematics(pp) book (61-69) oxford math's pp book pg 51-59 math syllabus grade 7
9	INTERGERS ➤ Understanding integers ➤ Positive and	Solvemathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics.	➤ Group work ➤ Demonstration ➤ Discussion ➤ Group work ➤ Demonstration	➤ common currencies	Longman mathematics(pp) boo(60 -64) oxford

	negative number on a number line ➤ Comparing integers ➤ Ordering integers	develop mathematical concepts on shapes and diagrams	➤ Discussion	➤ integers ➤ Charts ➤ models	mathematics pp book pg 70-74 mathematics syllabus grade 7
10	INTERGERS ➤ Addition and subtract integers. ➤ Addition and subtraction where brackets are included ➤ Application of integers in real life	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ Discussion ➤	➤ oranges ➤ charts ➤ thermometer ➤ bank statement ➤	Longman mathematics(pp) boo(64-69) oxford math's pp book pg 74-83 mathemaitics syllabus grade 7
11	NUMBER BASES ➤ Base ten numbering system ➤ Converting from base ten base two, five and	Solve mathematical challenges in everyday life through problem solving -Develop algebraic,	➤ Group work ➤ Demonstration ➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ charts ➤ oranges ➤ charts ➤ thermometer	Longman mathematics(pp) boo(70-78) oxford mathematics pp book pg 84-90 mathematics syllabus grade

	eight ➤ Convert between base two and five	geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration ➤ Discussion ➤		7
12	NUMBER BASES Convert between base two and five	Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work		Mathematics syllabus grade 7
13	Assessment Marking , compiling and closing				

NB: FOR MIDTERM , TESTTWO SUBJECTS PER DAY AND TEACH THE OTHER SUBJECTS THAT APPEAR ON THE TIME TABLE THAT DAY.

**MINISTRY OF GENERAL EDUCATION
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SUBJECT: MATHEMATICS

GRADE: 7

TERM: 2

YEAR: 2018

WEE	TOPIC/	GENERAL	METHODS	L /T	REFERENCE
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K	CONTENT	OUTCOME		RESOURCES	
1	NUMBER BASES -Adding and subtraction in different bases NUMBER AND NUMBER SEQUENSES -perfect squares and number square	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ ➤ charts ➤	Longman mathematics(pp)book(79-85) oxford mathematicspp book pg 94-99 mathematics syllabus grade 7
2	NUMBER AND NUMBER SEQUENSES -squares and square root of whole numbers -perfect cubes -Cubes and cube root of whole numbers	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤	Longman mathematics(pp)book(86-90) oxford mathematics pp book pg 100-103 mathematics syllabus grade 7

		concepts on shapes and diagrams			
3	NUMBER AND NUMBER SEQUENCES -SEQUENCE -number patterns with constant difference -number patterns with constant ratio -sequences with neither nor constant ration - series assessment	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤	Longman mathematics(pp)book(90-100) oxford mathematics pp book pg103-108 mathematics syllabus grade 7
4	- INEQUATIONS -Describe an open sentence -in equations	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics.	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤	Longman mathematics(pp)book(101-106) oxford mathematics pp book pg 110-112 Mathematics syllabus grade 7

		develop mathematical concepts on shapes and diagrams			
5	- INEQUATIONS -SOLVING SIMPLE INEQUATIONS IN ONE Variable -showing solution on the number line Assessment	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤	Longman mathematics(pp)book(107-110) oxford Mathematic pp book pg Mathematic syllabus grade 7
6	PLANE SHAPES -plane shapes -lines of symmetry Element of a circles	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Charts ➤ Plain papers ➤ Cartoon boxes ➤ scissors	Longman mathematics(pp)book(11-116) oxford Mathematicspp book pg 118-124 Mathematics syllabus grade 7

		skills in -Mathematics. develop mathematical concepts on shapes and diagrams			
7	PLANE SHAPES -relationship between circumference and diameter The value of π -the circumference of the circle in terms of diameter Mid -term assessment	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤	Longman mathematics(pp)bo o() oxford math's pp book pg math's syllabus grade 7
8	PLANE SHAPE -the circumference of a circle in terms of radius -diameter of a circle in terms of circumference	Solve mathematical challenges in everyday life through problem solving -Develop algebraic,	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤ Ruler ➤ Measuring tape ➤ Tins ➤ Cartoon boxes ➤ scissors ➤	Longman mathematics(pp)bo o(116-120) oxford mathematics pp book pg125-128 mathematics syllabus grade 7

		geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams			
9	MEASUREMENT -Circumference of a circle - formulae for calculating circumference	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤ String ➤ Ruler ➤	Longman mathematics(pp)book(121-122) oxford math's pp book pg 129-131 Mathematics syllabus grade 7
10	MEASUREMENT -area of a circle -	Solve mathematical challenges in everyday life through problem solving	➤ Discussion ➤ Group work ➤ Demonstration Discussion	➤ Charts ➤ Ruler ➤ Measuring tape	Longman mathematics(pp)book(121-124) oxford math's pp book pg 132-133 math syllabus grade 7

		-Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams			
11	Calculating radius	Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Group work ➤ Demonstration Discussion	➤ Charts models	
12	Mock examination	Solve mathematical challenges in everyday life through problem solving	➤ Demonstration Discussion		
13	Mock examination and closing				

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WEEK	TOPIC/CONTENT	GENERAL OUTCOME	METHODS	L AND T RESOURCES	REFERENCE
1	SOLID SHAPES -Identifying cylinders and triangular prisms - drawing nets of cylinders and triangular prisms	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	Cutout of shapes Tins -cans Water pipes	Longman mathematics(pp)book(125) oxford math's pp book pg 1136-139 math's syllabus grade

		-Mathematics. develop mathematical concepts on shapes and diagrams			
2	SOLID SHAPES -drawing or sketching cylinder and triangular prisms -assessment exercise	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	Cartoon boxes -scissors - charts -	Longman mathematics(pp p)book(140) oxford math's pp book pg 140-147 math's syllabus grade
3	STATISTICS Collecting and presetting data -pictograph -pie chart Bar charts	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Charts	Longman mathematics(p p)book() oxford math's pp book pg 148- Mathematics syllabus grade

		mathematical concepts on shapes and diagrams			
4	STATISTICS -collect and present data on a line graph and sequence tables - calculating mean,mode,medium	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Graph pads ➤ -plain papers ➤ -charts ➤ -number cards ➤	Longman mathematics(pp) boo(138-140,147-149) oxford math's pp book pg 154 math's syllabus grade
5	STATISTICS -Calculating averages as applied to mass, money, time, temperature and speed -	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in -Mathematics. develop mathematical concepts on	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Charts ➤ plain papers ➤ -charts ➤ -number cards ➤ Crayons ➤ matches	Longman mathematics(pp) p)book(150-152) oxford math's pp book pg 158-160 math's syllabus grade

		shapes and diagrams			
6	STATISTICS -summary and revision -assessment -practicing exam equations	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in Mathematics. develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Charts ➤ Cartoon boxes ➤ Scissors ➤ Plain papers	Longman mathematics(p p)book() oxford Mathematicspp book pg 161-168 math's syllabus grade
7	Revision and practising exam questions	Solve mathematical challenges in everyday life through problem solving -Develop algebraic, geometry and arithmetic skills in Mathematics. - Develop mathematical concepts on shapes and diagrams	➤ Discussion ➤ Group work ➤ Demonstration ➤ Discussion	➤ Charts	Longman mathematics(p p)book oxford Mathematics pp book pg Mathematics syllabus grade

8	Final Exams		➤	➤	
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