LAGOS STATE MINISTRY OF EDUCATION UNIFIED SCHEMES OF WORK FOR PRIMARY SCHOOLS

(MATHEMATICS FOR PRIMARY SCHOOL)
PRIMARY FIVE SECOND TERM

LEARNING OBJECTIVES	LEARING AGT.	MBEDDED CORE	LEARNING
Pupils should be able to revise 1st term's topics add and subtract using number lines solve quantitative aptitude problems related to addition and subtraction of integers using number lines	Pupils are guided to write numbers: 7 to +7 on sticky notes and place them on the floor in the class in ascending or descending order on a number line and allow enough space in-between the numbers: 3-4 pupils select simple addition or subtraction flash cards from a basket, e.g. 1+6, 2-6, -3+4 etc. Each pupil in turns is to stand and walk on the number line for addition or subtraction. Pupil in the class count aloud the movement of the volunteer according to the flash card picked. Pupils in groups use letters to represent numbers on number line. E.g. which letter best represent the number 2½ on the number line? K. L. M. N. O. 1 2 3 4 The answer is letter M. QUANTITATIVE APTITUDE Complete the pyramid	Critical thinking and problem solving Communication and Collaboration Leadership and Personal development	RESOURCES AUDIO VISUAL RESOURCES Coloring pens Humber line slicky notes Flash cards Site links https://esson/number- line-lesson-plan.htm Video links https://www.fune.com/yesyon
Pupils should be able to: round up numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest tenth, hundredth and thousandth estimating sums, differences and products solve quantitative aptitude problems related with binary numbers	Selected few pupils to be given a handful of raw coms or beans. They are then asked how many are there without counting them Pupils in groups study and work on a receipt of a grocery store or a supermarket to practice estimation. QUANTITATIVE APTITUDE Example: 6,75 3,1	Communication and collaboration Critical thinking and problem solving Digital literacy Student leadership and personal development	AUDIO VISU, RESOURCE flash cards charts Erasers -Grocery store recepts. Site links https://study.com/idemy/lesson/estron-lesson-for-kids.htmi
Pupils should be able to: explain the term "Percentage" calculate the ratio of two numbers solve questions related to real life problems on percentages express a number as a percentage of another number solve quantitative related questions on percentages	10 out of the 100 boxes which is 10 out of 100	and author	Video links https://m.youlubs /watch?v=EyiCbr g AUDIO VIS RESOURI Percentage char Cardboards Pencils Coloring pens Site links https://study.cor demy/lesson/pd -lesson-plan.ht Video links https://m.youlu /watch?v=x1w/ 9ue
	Pupils should be able to: revise 1st term's topics add and subtract using number lines solve quantitative aptitude problems related to addition and subtraction of integers using number lines Pupils should be able to: round up numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest tenth, hundredth and thousandth estimating sums, differences and products solve quantitative aptitude problems related with binary numbers Pupils should be able to: explain the term "Percentage" calculate the ratio of two numbers solve questions related to real life problems on percentages express a number as a percentage of another number solve quantitative related questions on percentages	Pupils should be able to: round up numbers to the nearest 10, 10 and whole number rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest lenth, hundredth and thousandth estimating sums, differences and products solve quantitative apittude problems related with binary numbers Pupils should be able to: explain the term "Percentage" calculate the ratio of two numbers solve questions related to real life problems on percentages express a number as a percentage of another number solve quantitative related questions on percentages QUANTITATIVE APTITUDE QUANTITATIVE APTITUDE [25%] [25/100]	Pupils should be able to revise 1º terms space and and soltract using number lines solve quantitative apitiscle proteoms related to addition and soltraction of integers using number lines. Pupils are guided to write numbers. 3-d pepils select simple addition or soltraction of integers using number lines. 3-d pepils select simple addition or soltraction of integers using number lines. 3-d pepils select simple addition or soltraction of integers using numbers line. 3-d pepils select simple addition or soltraction. Popil in the about 0.4 g. 3-til 6. 2 and and what on the numbers for the evaluation according to the flash card picked. Popils in groups use letters to represent numbers on numbers in the nearest tenth, hundred this and thousandth. Pupils should be able to: rounding numbers to the nearest 10, 10 and whole numbers rounding numbers to the nearest tenth, hundred this adhibition and thousandth estimating sums, differences and products solve quantitative apititude problems related with binary numbers. Pupils should be able to: 21 to 10 to

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VKS	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	LEARNING
				SKILLS	RESOURCES
4	ALGEBRAIC PROCESSES	Pupils should be able to: find missing numbers in open	Pupils in two groups do a role play on algebraic	Role play	AUDIO VISUAL
	Simple equations	sentences	expression using an longer for hanging dresses. An hanger is on the handle of a classroom door	Student	RESOURCES
	Solving equations, using	use letters to represent boxes in	pupils get 8-10 pegs of one colour (blue) and tie a	leadership and	Paper notes e.g.
	the balance method	open sentences	thread to each of them, then tie 6pegs to	Physical development	money Recording sheet
	Solving real life	solve real life problems	QUANTITATIVE REASONING	Critical thinking	for pupil's
	problems using	involving equations	left side of the hanger and 2pegs to the right side of	and problem	observation
	equations	calculate the value of algebraic	the hanger.	solving	Multiplication and
	Quantitative reasoning	expressions by substitution	It is observed that the position of the hanger is not	Digital literacy	division flash
		solve quantitative aptitude	balanced. To balance it, tie thread to another coloured	Digital literacy	cards
		problems on algebraic	pegs (red) and start to attach it one by one to the side of the hanger that dropped until it balances. Then		Site links
	Importance:	expressions	count the number of pegs used to balance the hanger.		https://study.com/aca
	It is necessary for better		THE EQUATION		demy/lesson/solving-
	understanding of balancing		Left Right		algebraic-equations-
	quantity of commodities		6 blue pegs+2blue pegs= 8 blue pegs		defination-
	statistics and calculus				examples.html
	It is faster and better		6 blue pegs+2blue pegs= 8 blue pegs 12 4		
	than basic mathematics		+ 4 red pegs + 4 red pegs		Video links
	It reinforces logical		6 pegs+6 pegs= 12 pegs		https://m.youtube.com
	thinking		2 8		/watch?v=F1azJEdfx5
					<u>c</u>
5	COMMERCIAL MATHS	Punils should be able to:	Durity as a start of the start	B	AUDIO LEGICA
J	MONEY		Pupils as a class do a role play of class business.	Digital literacy	AUDIO VISUAL
		recognize currencies used in Nigeria and other countries	Pupils are shared into two groups. A group sells	Critical thinking	RESOURCES
	Introduction to money	convert from one currency to	products while the other buys the products. Dummy money is required for exchange. Also,	and problem	Paper material
	Conversion of the	another, using the rate of	profit and loss are observed. If the cost price is	solving	e.g. money
	currency of a country to	conversion	greater than the selling price, there is loss	Communication	Recording sheet
	another country.	solve problems involving profit	observed but if the selling price is greater that the	and collaboration	for pupil's
	Profit and loss	and loss in real life problems	cost price, there is a profit.	Student	observation
	Quantitative reasoning	solve quantitative aptitude	Pupils in small groups use dummy monies to work	leadership and	Site links
		problems related to profit and	on the conversion of Nigerian currency (N into	personal	https://byjus.com/mat
	Importance:	loss in money	other countries' currencies and vice versa using	development	hs/profit-and-lss/
	It is a medium of	loss in money	the official rate of exchange.		IIS/PIUIII-aiiu-iss/
	exchange in day to day		and difficult face of excitatings.		Video links
	transactions			MAPES ACET	https://m.youtube.com
	It helps in payment of				/watch?v=RtgSqqRy8
	services and settling		AND WEST OF COURSE OF STREET, THE STREET,	100 10000	to
	bills for family needs		off of with profession that earth	District to	
	e.g. education, health		per a corp rough y rearn negotial block and adding	tudio belga	for least 1 T
	care, charity, vacation		QUANTITATIVE REASONING		STREET, S
	trips etc.		N200 M10	one Name	an, elli lassifi
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			P2300	The second	Two calculations
	COMMERCIAL MATHS	Pupils should be able to:	Charte on money of different d	The second secon	A LONG TO SERVICE OF THE PARTY
	MONEY	explain the simple interest in	Charts on money of different denominations are	Communication	AUDIO VISUA
	Marian Barrier	business transactions.	placed around in the classroom and dummy	and collaboration	RESOURCES
	Simple interest	solve problems on discount and	monies are given to the pupils. The pupils in class		Money charts an
	Discount and	commission	work in groups brainstorming on giving different	leadership and	flash cards
	commission	find commissions, discount,	ways a smaller denominations can make up a	personal	
10	Money transactions	simple interest on real life	bigger denomination and breaking down of a	development	Site links
	Quantitative Reasoning	problems e.g. post offices,	bigger denomination into smaller denominations.	Critical thinking	https://betterlesson.c
	, and the same of	markets, etc.	Pupils do a role play on obtaining discount on	and problem	m/lesson/553000/sim
	Importance:		sales of item(s) and getting commission from a	solving	<u>ple-interest</u>
10	Discount on sales draw	solve problems involving money transactions	company on sales of products.	THE RESERVE	
	customers to sales and		OHANTITATIVE DEACONING		Video links
	services	solve quantitative aptitude	QUANTITATIVE REASONING		https://m.youtube.com
	Money most important	problems related to simple	N1200 Ì		/watch?v=Y20HH6go
	function is as a medium	interest, discount, commission.	Y		Rbk
16.	of exchange to facilitate		(Aran)	The state of the s	
	transaction		N600 N600	100	
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-	TOPICS	LEARNING OBJECTIVES		EMBEDDED CORE SKILLS	
,	Review of the first half term's work and periodic test	Pupils should be able to: review the first half term's work participate in the periodic test.	Pupils are grouped into three or more groups to do revision on topics treated. A group leader for each of the groups coordinates the activities. Allow the members of each group to participate	Leadership skill	Past question Exercises from textbook
8	PLANE SHAPES (PERIMETER) Meaning of perimeter Perimeter of regular plane shapes Perimeter of irregular plane shapes Real life problems on perimeter Quantitative aptitude Importance: They help in quantifying physical space e.g. fencing plots of land, roofing of a house. They provide foundation or more advanced Mathematics found in algebra, trigonometry and calculus e.g. quantity of tiles or rug/carpet to cover living room, rooms or toilet walls.	Pupils should be able to: explain the concept of perimeter find the perimeter of regular and irregular shapes solve the perimeter of a circle relate perimeter to real life problems and solve, solve quantitative aptitude problems related to perimeter of regular and irregular plane shapes	and interact with each other. Pupils in pairs are asked to cut a polygon with measured shapes. They join the polygons together to give just a shape. After doing that, measure the total length around the shape being created. Pupils in small groups use tape measure to measure the perimeter of desk in the class. Pupils in groups use a thread or fishing thread, cut into sizeable pieces to for on a circle on a bottle. distance round the bottle circle is the circumference. Then, the thread or fishing thread is straightened to form a straight line, use ruler to measure the line. This is the perimeter of the circle. QUANTITATIVE REASONING 7 22	and problem	AUDIO VISI RESOURC Flash cards on formulas of perin s of shapes cardboards to on a polygon Scissors Site links https://study.com demy/lesson/pan.htm https://study.com demy/lesson/pan.htm lesson-plan.htm video links https://m.youtub //watch?v= ykW
9	PLANE SHAPES (AREA) Area of regular shapes Area of irregular shapes Area of right-angled triangle Real life problems on area Quantitative reasoning IMPORTANCE: -Farmers use it to know the number of seedling to plant on a small piece of landHorticulturists use it to plant flowers or carper grasses on a fieldPainters use it to calculate the number of paint buckets to paint a room.	Pupils should be able to: find the area of regular, irregular shapes and its unit. calculate the area of right angled triangle. solve real life problems on area of regular, irregular and right-angled triangles solve quantitative aptitude problems related to area of regular, irregular and right-angled triangles	Pupils: -in pairs use the classroom in unlocking the concept of area. They count the number of columns in the class and multiply it with the number of rows, the resulting figure gives a rough estimate of area of the class in small groups draw a diagonal on a rectangular plane sheet to identify a right angle triangle. Use a pair of scissors to cut out the triangle and use a ruler to measure the base and the height. Then use the information to calculate the area. Sing songs on plane shapes. QUANTITATIVE REASONING Examples: 6 6 6 41 2 12 6	Critical thinking and problem solving Communication and collaboration Student leadership and personal development Digital literacy	AUDIO VIS RESOUR Cardboards Flash cards to s the formula of a of shapes Charts containit different shapes their areas Site links https://study.co demy/lesson/a irregular-shape lesson-plan.htr https://study.co demy/lesson/b lesson-plan.htr Video links https://m.yout /watch?v= 5h
	VOLUME AND CAPACITY Measurement of volume in cubes and cuboids using unit cubes Measurement of volume in cubes and cuboids using formula Comparing volume of spheres and cuboids Discovering relationships between litre and cubic centimeter Real life problems. Quantitative reasoning Importance: -It is useful in science laboratories, and catering services.	Pupils should be able to: use units to find the volume of cube and cuboids use formula to find the volume of cuboid find the relationship between litres and cubic centimeters convert cm³ to litres and vice versa solve given problems in quantitative aptitude on volume and capacity	Pupils in small groups are taken for a gallery work round the school. They observe different storage materials that have their volumes and capacities written on them. For example water storage tank, water buckets, kegs, water bottles etc. They then compare the differences betweer all various types of materials with their respective volumes and capacities, arranging them in their increasing sizes. QUANTITATIVE REASONI 1.4L 1400cm³ 7 1200cm³	n Student	AUDIO N RESOU Coloring penerecording observations Recording st taking observ Site links https://study. demy/lesson capacity-less kids.html Video link https://m.you /watch?v=z

S	TOPICS	LEARNING OBJECTIVES	LEARNING ACTIVITIES	EMBEDDED CORE	
	-It helps in the correct measurement of quantities e.g. groundnut oil, palm oil, kerosene, water etc.	THE STREET OF	SRY REPERTANSITION	SKILLS	RESOURCES
	TIME Average speed Distance Duration Real life problems. Quantitative reasoning Importance: -Used by travelers, motorists, tourists to plan activities and movements.	Pupils should be able to: find the duration between one time and another calculate the distance covered within a length of time solve the average speed of a moving object given the total distance travelled and the time taken convert the units of time express the hours of a clock in minutes, seconds and vice versa solve real life problems on distance, time and speed. solve quantitative aptitude relating to time	Pupils as an individual checks and says the time on a wall clock placed at the front of the class. Pupils work in small groups. A leader is chosen, he chooses another pupil in the group. A distance of about 5m is set between two pupils, a timer is also set to record the time involved in the throwing and catching of a ball over a specified distance. This activity goes on repeatedly for 5m, 10m, 20m, 30m, for each group. respectively. At the end of the activities, the time differences are compared. The pupils will notice that the farther the distance, the more time it takes the ball to reach its final destination QUANTITATIVE REASONING 135km/hr 4hrs	Critical thinking and problem solving Communication and collaboration Student leadership and personal development Digital literacy	AUDIO VISUAI RESOURCES Timer for checking time Ball Clock Site links https://study.com/aca demy/lesson/average speed-velocity- lesson-for-kids.html Video links https://m.youtube.com/watch?v=Q05MCut0 3Y
	PROJECT Pupils are divided into two groups. Each group is to work on types of angles and types of triangles. Materials: ice-cream sticks, markers, cardboards and glue. Procedure: Paint the ice-cream sticks with markers of different colours, arrange the sticks by using glue to paste them on a cardboard to form types of angles and types of triangles in each of the respective groups.	By the end of the lesson, students should be able to: 1. interact within the group and discuss how each project work is done.	i. Choose group leaders in each group. ii. Follow the procedure for the project. iii. Each group leader gives a presentation on mode of operation. iv. The students take a gallery walk where the projects are displayed.	-Leadership Skill -Communication and collaboration (Team work) -Critical thinking -Citizenship	
	Project/Practical work and Revision of first term's work and preparation for Examination.	Pupils should be able to: Realize the areas of weakness in the topics treated for the term.	Pupils are arranged into groups for tutorial. The teacher supervises, corrects and marks the students' exercises/activities in each group	Collaboration Communication Leadership Skills	namenage namengaga namengaga
	EXAMINATION	EXAMINATION	EXAMINATION	Critical Thinking EXAMINATION	EXAMINATION