MATHEMATICS LESSON PLAN

LESSON PLAN

2023



Prepared by: T.SHIVAJI, State level Maths RP, MWD MMDRS, HARAPANAHALLI TOWN VIJAYANAGARA DIST Mob.9916142961

GAGE

5 E

LEARNING CYCLE

ELABORATE



Uni	t: 01		Methodology	Demonstrat	ion & lecture n	nethod	
Uni	t name: Playi	ng with numb	ers.				
Dat	e: From	to					
<u>Obj</u>	<u>ectives:</u>						
1	Concept of nur	mbers in general	form.				
2	Concept of gar	nes in numbers.					
3	Letters of digit	ts.					
4	To understand	l the tests of divis	ibility.				
<u>Steps</u>	Activitie	s To Favourable I	For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session knowledge, by numbers. They	on by checking the asking the questi knew about all t	e previous ons related to ype of numbers.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will st have heard the • What is natur • Whole numb numbers. After getting dir introduce the c	art the class by as following senten ral numbers?. ers, integers, eve fferent answers fi chapter.	sking if students aces: n and odd rom students	chalks, Numbers chart, ppt.	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS				
Expla	Numbers in general form: explain about the numbers in general form. 37=3x10+7x1. The 2 - digit number ab is written as [ab does not mean a × b] (a) $x(10 + (b) x(1) = (10a + b)$ The 2 - digit number 52 is written as (5) $x(10 + (2) x(1) = (50+2)$ Games in numbers: Explain how to play with numbers.	chalks, Numbers chart, ppt.	Discussion & group activities		
	Letters of digits: \therefore For A = 5, we get 5 + 8 = 13 \therefore The values of B and C = 1(carried on) + 4 + 9 = 14 Thus the addition is 4 5 $\frac{+ 9 8}{1 4 3}$ Hence, A = 5, B = 4 and C = 1 Divisibility rule: finally explain the divisibility rule of 2, 3, 4, 5, 6, 8, 9 & 11.				
Elabor	Make group of students, guide them to find the some more divisibility rules with an examples.	Exercise problems In textbook	Activity	Discussion with students	
Evalua	te Teacher will assign some problems to do work. For practice students should do problems in textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
S	Subject teacher Head master or mistress/Principal				
{	th STANDARD MATHEM	ATICS		LESSON PLAN	·

Unit: 02 Meth

Methodology: Demonstration & lecture method

Unit name: Rational numbers.

Date: From to

Objectives:

- 1. To understand the properties of rational numbers.
- 2. Concept of representation of rational numbers on number line.
- 3. Rational numbers between two rational numbers.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking the questions related to rational numbers. In previous class, they knew about rational numbers.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions on rational numbers, operations on rational numbers ect. After getting different answers from the class, introduce the chapter.	chalks, Numbers chart, ppt.	Questionnaire	Answering for supplementary questions.	

Explain	Introduction: example 2x=3 is a linear equation, x= $\frac{3}{2}$. This leads us to the collection of rational numbers. Properties of rational numbers. Explain the properties of rational numbers with examples. • Closure property • Commutative property • Additive inverse • Multiplicative Inverse • Distributive property Representation of rational numbers on number line: Explain how to represents the rational numbers	chalks, Numbers chart, ppt.	Discussion & group activities		
	Since in $\frac{-5}{6}$, denominator is 6 We divide line between 0 & 1 into 6 equal parts.				
Elaborate	Make group of students, guide them to find the rational numbers. Students should prove the properties of rational numbers.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students should solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subje	ect teacher		Head master or	r mistress/Principal	
8 th S7	TANDARD MATHEMA	TICS		LESSON PLAN	

Unit: 03Methodology: Demonstration & project methodUnit name: linear equations in one variable.

Date: From

Objectives:

- 1. To solve the linear equations.
- 2. Concept of applications problems on linear equations.
- 3. Solving the equations having the variable on both sides.
- 4. Concept of reducing equations to simple form.

to

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking the questions related to linear equations learn In previous class. Ask the questions about verbal problems like 'if we add to one number we will get 8"	Chart, ppt color chalks. Projector	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions like 'if we subtract 15 from a number we get 12'. After getting different answers from the class, introduce the chapter.	chalks, Numbers chart, ppt.	Questionnaire	Answering for supplementary questions.	

	CHITTI CREA	ATIONS			
Explain	 Solution of linear equation: by taking different examples, explain how to solve the linear equations in simple way. Example x+5=8, we will get x=3. Applications: explain how we can solve the applications level by taking different examples. Example: 'one natural number is 10 more than the other. Their sum is 74. Find the number'. 	chalks, Numbers chart, ppt. Projector	Discussion & group activities		
	5x + 1 = 3x + 5				
Elaborate	Make group of students, guide them to solve the equations individually. With the help of teacher, solve the additional problems.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students should solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subje	ect teacher		Head master o	r mistress/Principa	1
8 th STANDARD MATHEMATICS LESSON PLAN				1	

Unit: 04Methodology: Demonstration & lecture methodUnit name: Understanding quadrilateral.

Date: From

Objectives:

1. Definition of polygons, classification.

to

- 2. Measurement of polygons.
- 3. Concept of Quadrilaterals & their types.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking the questions related to figures, closed open figures ect.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions about curves, plane figure ect. After getting different answers introduce the chapter.	chalks, Numbers chart, ppt. Modals	Questionnaire	Answering for supplementary questions.	

	CHITTI CRE	ATIONS			
	Polygons: a simple closed curve is made up of only line segments is called polygons. $\overbrace{Triangle}^{Triangle} \overbrace{Quadrilateral}^{Quadrilateral} \overbrace{Pentagon}^{Pentagon} \overbrace{Hexagon}^{Hexagon}$	chalks, Numbers chart, ppt. Projector	Discussion & group activities		
Explain	Heptagon Octagon Nonagon Decagon				
	Quadrilaterals: explain about the quadrilaterals				
	and their properties.				
	Quadrilateral Family Quadrilateral Parallelogram Kite Rhombus Square Rectangle				
	Make group of students, guide them to identify	Exercise	Activity	Discussion	
Elaborate	teacher, solve the additional problems.	problems In textbook		with students	
Evaluate	Teacher will assign some problems to do work.	Textbook	Evaluation	Try to do all	
	Students should solve all the problems given in			problems in	
	the textbook.			textbook.	
Subject teacher			Head master o	r mistress/Principal	
8 th S	8 th STANDARD MATHEMATICS LESSON PLAN				

Unit: 05Methodology: Demonstration cum lecture methodUnit name: Squares & square roots.

Date: From to

Objectives:

- 1. Concept of square numbers, properties & some more patterns.
- 2. Concept of Square roots.
- 3. Method of finding the square roots.
- 4. Square roots of decimals & estimation of square roots.
- 5. Concept of Quadrilaterals & their types.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
F	Start the session by checking the previous	Chart,	Discussion &	Will try to	
Engage	knowledge, by asking the numbers which are	ppt	group	answers	
	multiplied its self. They know the numbers,	color chalks.	discussion.		
	operations of numbers.				
	Start the session by asking some questions about	chalks,	Questionnaire	Answering for	
Explore	numbers, like 'how much if3 is multiplied itself 2	Numbers		supplementary	
_	times?'. Like other questions, we will get different	chart, ppt.		questions.	
	answers from the class, then introduce the	Modals		-	
	chapter.				

	CHITTI CREA	ATIONS			
Explain	Square numbers: explain about square numbers, and guide them to memorize the square numbers up 30 or 40. $1^2=1$ $2^2=4$ $3^2=9$ and so on Square roots: explain the square roots numbers, and also the method of finding the square roots. $\sqrt{9} = 3, \sqrt{49} = 7, \sqrt{121} = 11.$ $\boxed{\begin{array}{c} * & * & * \\ * & * & * \\ * & * & * \\ * & * &$	chalks, squares and roots chart, ppt. Projector	Discussion & group activities		
Elaborate	Make group of students, give some problems to find the squares and square roots. With the help of teacher, solve the additional problems.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students should solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subject teacher			Head master o	r mistress/Principal	
8 th S7	ГANDARD MATHEMA	TICS		LESSON PLAN	

Unit: 06Methodology: Demonstration & lecture methodUnit name: Algebraic expressions and identities.

Date: From

Objectives:

1. Concept of terms, factors and coefficients.

to

- 2. Addition and subtraction of algebraic expressions.
- 3. Multiplications of algebraic expressions.
- 4. Concept of identities.
- 5. To solve the problems on identities.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions on simple linear equations. x+3=5. They knew the knowledge of linear equations.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions about linear equations, then introduce the chapter.	chalks, chart, ppt.	Questionnaire	Answering for supplementary questions.	



Unit: 07Methodology: Demonstration & learning with doing.

Unit name: Practical Geometry.

Date: From to

Objectives:

- 1. Concept of constructing the quadrilaterals.
- 2. To construct a quadrilateral if they give four sides.
- 3. To construct a quadrilateral if they give two diagonals and three sides.
- 4. To construct a quadrilateral if they give two adjacent sides and three angles.
- 5. To construct a quadrilateral if they give three sides and two included angles.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions how to draw a line, how to construct a triangle.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions about construction of triangles, then introduce the chapter.	chalks, chart, ppt.	Questionnaire	Answering for supplementary questions.	

	Construction of quadrilaterals: first of all, teacher should give the clear information to	Geometry kit	Discussion & group activities		
Explain	students that how to construct a quadrilaterals.	Projector Geogebra Ppt.			
Elaborate	Make group of students, give some problems to construct a quadrilaterals. With the help of teacher, solve the additional problems.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students should solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subje	ect teacher		Head master o	r mistress/Principal	

8th STANDARD

MATHEMATICS

Unit: 08Methodology: Demonstration & lecture method.Unit name: Cubes and cube roots.

Date: From to

Objectives:

- 1. Concept of cubes.
- 2. To understand the smallest multiple that is a perfect cube.
- 3. Concept of cube roots.
- 4. To find the cube roots by factorization method.
- 5. Cube root of a cube roots.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions related to squares, square roots. Students already learnt about squares in the earlier.	Chart, ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking some questions like 'if a number is multiplied by 3 times what will get?'. Then introduce the chapter.	chalks, chart, ppt.	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS					
Explain	Introduction: explain about cube numbers, practice them to remember the cube numbers. When you multiply a number by itself, and then multiply it by itself again, you get a cube number. $\underbrace{1 \times 1 \times 1 = 1}_{1^3 = 1} \qquad \underbrace{2 \times 2 \times 2 = 8}_{2^3 = 8} \qquad \underbrace{3 \times 3 \times 3 = 27}_{3^3 = 27}$ Cube roots: explain about cube roots with different examples. $2 \xrightarrow{Cubing} 2^3 = 8$ $\underbrace{3\sqrt{8} = 2 + \frac{Cube}{root}}_{8} \\\underbrace{2 \xrightarrow{Cube}}_{Cube root} \\ 8$	Projector dies Ppt.	Discussion & group activities			
Elaborate	Make group of students, give some problems to solve on cube and cube roots. With the help of teacher, solve the additional problems.	Exercise problems In textbook	Activity	Discussion with students		
Evaluate	Teacher will assign some problems to do work. Students should solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.		
Subje	Subject teacher Head master or mistress/Principal					

8th STANDARD

MATHEMATICS

LESSON PLAN

Unit: 09 Methodology: Demonstration & lecture method. Unit name: Exponents & powers. **Date: From** to **Objectives:** 1. Powers with negative exponents. 2. To understand the laws of exponents. 3. Comparing very large and small numbers. 4. To solve the problems on laws of exponents. Teachers Evaluation TIME Activities To Favourable For Learning <u>Steps</u> TLM Tools & Introspection Techniques Start the session by checking the previous **Discussion &** Chart, Will try to knowledge, by asking questions related to Engage ppt group answers squares, cubes ect. Students already learnt about color chalks. discussion. squares & cubes in the earlier.

chalks,

chart, ppt.

Questionnaire

Teacher will ask some questions like 'how can we

write if a number is multiplied 3 times?'. Asks

different questions and write on board, then

introduce the chapter.

Explore

Answering for

supplementary

questions.

		-		1 1
	Powers with negative exponents: explain how	Projector	Discussion &	
	power numbers and base numbers will have With	dies	group activities	
	different examples.	Ppt.		
	Laws of exponents: explain 5 laws of exponents			
	by taking different examples.			
	Law I			
	$a^m \times a^n = a^{m+n}$	*		
Exnlain	Law II			
Explain	a^m $m=n$			
	$\frac{1}{a^n} = a^{m-n}$			
	Law III			
	$(a^m)^n = a^{mn}$			
	Law IV			
	$a^m \times b^m = (ab)^m$			
	Law V a^m $(a)^m$			
	$\frac{1}{m} = \left(\frac{m}{r}\right)$			
	Law VI			
	$a^0 = 1$			
	By using different examples explain all 5 laws of			
	avponents to the pupils			
	Mala group of students, size some mehlems to	Fuenciae	A ati:t	Diaguagian
	Make group of students, give some problems to	Exercise	Activity	Discussion
	laws of exponents. Students will solve additional	problems		with students
Elaborate	problems given by the teacher.	In textbook		
Evaluate	Teacher will assign some problems to do work	Textbook	Evaluation	Try to do all
LFuldute	Students will solve all the problems given in the	reaction	Lvaraation	nrohlems in
	textbook			textbook
]				ICALDOOK.
Subje	ect teacher		Head master of	r mistress/Principal
Ջ th Տ 7	CANDARD MATHEMA	TICS		LESSON PLAN

Unit	Unit: 10 Methodology: Demonstration & project method.							
Date	e: From to							
Obie	ectives:							
1. 2. 3. 4.	 Concept of data, representation of data. To understand the different types of graphs. Organizing data & grouping data. Concept of probability & chances. 							
<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME			
Engage	Start the session by checking the previous knowledge, by asking questions related to data. Students already learnt about data earlier.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers				
Explore	Teacher will ask some questions about different types of grouping studies in previous year. Asks different questions and write on board, then	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.				

introduce the chapter.

	CHITTI CREATIONS				
Explain	Introduction: give clear information of data and representation of data on different types of graphs.	Projector Geometry kit Ppt. Marker Geogebra Graph sheet	Discussion & group activities		
	Siven data with different examples. Number of students Tally marks Frequency 1 1911 6 2 19411 7 3 1941 6 4 19411 8 5 19411 7 6 1941 6 Total 40 Chances and probability: explain about probability and chances with examples.				
Elaborate	Make group of students, give some problems for solve on different types of graphs. Students will solve additional problems given by the teacher.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students will solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subject teacher Head master or mistress/Principal					
8 th STANDARD MATHEMATICS LESSON PLAN					

Unit: 11 Methodology: Demonstration & lecture method.

Unit name: Inverse Proportions. to

Date: From

Objectives:

1. Concept of proportion.

2. To understand the concept of direct and inverse proportion.

3. To solve problems on direct and inverse proportion.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions ratios. Students already learnt about ratios earlier.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask some questions about ratios like 'if we mixed 2kg sugar to 3kg rice' how can we write in ratio?" After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS					
Explain	Introduction: explain about ratios. With different examples, come to the point of proportion.	Projector Geometry kit Ppt. Marker Geogebra Graph sheet	Discussion & group activities			
	$\frac{x}{8} = \frac{5}{16} \qquad \frac{x+3}{7} = \frac{x-2}{4}$ Inverse proportion: explain about inverse proportion with application problems. Make group of students, give some problems for	Exercise	Activity	Discussion		
Elabora	solve on proportions. Students will solve additional problems given by the teacher.	problems In textbook		with students		
Evaluate	 Teacher will assign some problems to do work. Students will solve all the problems given in the textbook. 	Textbook	Evaluation	Try to do all problems in textbook.		
Su	Subject teacher Head master or mistress/Principal					
8 ^{ti}	STANDARD MATHEMA	ATICS		LESSON PLAN		

Unit: 12Methodology: Demonstration & lecture method.Unit name: Introduction to graph.

Date: From to

Objectives

<u>Objectives:</u>

- 1. Concept of bar graph, pie chart, & histogram.
- 2. To understand the representing the line graph.
- 3. Concept of linear graph.
- 4. To understand the x and y coordinates.
- 5. Relationship between dependent and independent variable is shown graph.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions about how we represents the data. Students already learnt about graphs earlier.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking different questions on data handling. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

Explain	Introduction: explain about bar graph, pie chart and histogram by using different examples.	Projector Geometry kit Ppt. Marker Geogebra Graph sheet	Discussion & group activities		
	The and linear graph: explain about line graph and linear graph with examples. V + V + V + V + V + V + V + V + V + V +				
Elaborate	Make group of students, give some problems for solve on different graphs. Students will solve additional problems given by the teacher.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students will solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subje	Subject teacher Head master or mistress/Principal				
8 th S7	8 th STANDARD MATHEMATICS LESSON PLA			LESSON PLAN	

Dat	e: From	to				
<u>Obj</u> e	<u>ectives:</u>					
1	. Concept factor	isation.				
2	. To understand	l method of factorisation.				
3	. Concept of fact	torization using identities.				
4	. To understand	l the division of algebraic expre	essions.			
<u>Steps</u>	Activitie	s To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
				rechniques		
Engage	Start the sessio knowledge, by terms. Students previous year.	on by checking the previous asking questions about algebra s already learnt about terms in	aic Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will as terms ect. Afte class, then intro	k the class about factors, algeb r getting different answers from oduce the chapter.	raic chalks, m chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS					
Explain	Factorization: explain about factorization, definition examples and some problems on it. Factorize: $2x^2+4x$, y^2+4y+4 . Methods of factorization: explain about methods of factorization with different examples. Factoring Techniques Factoring Techniques Factorize the GCF $2x^2-4x-24y$ $= 2y(x^2-4x-15)$ $= 4x^2-10x+6x-15$ = 2x(2x-5)+4(2x-5) = (x+3)(x-3) Factorization by identities: Explain how to factorise by using identities with examples. $(a + b)^2 = a^2 + b^2 + 2ab$ $(a - b) (a + b) = a^2 - b^2$	Projector Ppt. Marker	Discussion & group activities			
Elaborate	Make group of students, give some problems for solve on factors. Students will solve additional problems given by the teacher.	Exercise problems In textbook	Activity	Discussion with students		
Evaluate	Teacher will assign some problems to do work. Students will solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.		
Subje	ect teacher		Head master of	r mistress/Principal		

8th STANDARD

MATHEMATICS

LESSON PLAN

Unit: 14 Methodology: Demonstration & lecture method.

Unit name: **VISUALIZING SOLID SHAPES**.

Date: From to

<u>Objectives:</u>

- 1. Concept of solid shapes.
- 2. To understand the views of 3D-shapes.
- 3. To learn about faces, edges and vertices of solid shapes.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by explaining about plane shapes and solid shapes. Students already learnt about shapes in previous year.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class about plane figures, 2D shapes and solid shapes. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	



Unit: 15

Methodology: Demonstration & lecture method.

Unit name: COMPARING QUANTITIES.

Date: From to

<u>Objectives:</u>

- 1. Concept ratios and percentage.
- 2. To understand the discounts.
- 3. Simple and compound interest.
- 4. To learn about applications of compound interest.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by explaining about ratios and proportions. Students already learnt about proportions in previous chapter.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class about quantities, percentage ect. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS				
Explain	Introduction: Explain about percentage and ratios. By taking different examples introduce the concept of discount. EXEMPTICE EXEMPTICE Compound interest: introduce the concept of C.I then will do some problems on it. $A = P(1+i)^n$ A = final amount including principal P = principal amount <i>i</i> = interest rate per year <i>n</i> = number of years invested	Projector Ppt. Marker Modals 2D & 3D shapes.	Discussion & group activities		
Elaborate	Make group of students, give some problems for solve on discounts, compound interests. Students will solve additional problems given by the teacher.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students will solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subject teacher Head mast			Head master o	r mistress/Principal	
8 th STANDARD MATHEMATICS LESSON PLAN					

Unit: 16

Methodology: Demonstration & lecture method.

Unit name: **MENSURATION**.

Date: From

<u>Objectives:</u>

1. Concept area and perimeter of plane figures.

to

- 2. Area of trapezium.
- 3. Area of general quadrilaterals.
- 4. Area of polygons.
- 5. Area & volume of solid shapes.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge, by asking questions related to solid shapes and plane figures. Students already learnt about proportions in previous chapter.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class about 3D shapes, perimeter and area of the plane figures ect. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CREATIONS				
Explain	Perimeter and area: Explain about perimeter and area of the plane figures.Area of trapezium: introduce the topic trapezium and explain about formula then do some problems on it.Area of quadrilaterals: formula of area of quadrilateral with problems.	Projector Ppt. Marker Modals 2D & 3D shapes.	Discussion & group activities		
Elaborate	Make group of students, give some problems for solve on area and volumes of solid shapes.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work. Students will solve all the problems given in the textbook.	Textbook	Evaluation	Try to do all problems in textbook.	
Subject teacher			Head master or mistress/Principal		
8 th STANDARD MATHEMA		TICS		LESSON PLAN	

_ _ _ _ _