MATHEMATICS LESSON PLAN

LESSON PLAN

2021



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GAGE

5 E

LEARNING CYCLE

SLABORATE



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	CHITTI C	REATIONS					
Unit: 01 Methodology: Demonstration & lecture method.							
Uni	t name: INTEGERS.						
Dat	e: From to						
<u>Obje</u>	<u>ectives:</u>						
1.	. Concept of integers.						
2.	. Properties of integers.						
3.	. Multiplication and division of integers.						
4.	. To understand the properties under multiplicat	ion and division.					
<u>eps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME		
jage	Teacher test the previous knowledge of students by asking the different questions about numbers Students already learnt about this.	s Chart, s. Ppt color chalks.	Discussion & group discussion.	Will try to answers			
olore	Teacher will ask the class about number line, smallest number, negative numbers ect. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.			

				(CHITTI CREA	ATIONS			
	Introduct integers. D previous y Propertie Explain all multiplicat to do the y	ion: start to some p rear on the s of integ propertion tion and c vork. The	the class roblems a is chapter gers: es under a livision. G n verify th	by explain s we done addition, s ive some nemselves	ning about e in the ubtraction, problems	Projector Ppt. Marker Chart	Discussion & group activities		
Explain	Property	-	Operations	on Integers	- 1				
	Name	Addition	Subtraction	Multiplication	Division*				
	Closure	$a + b \in Z$	a-b∈Z	$a \times b \in Z$	a÷b∉Z				
	Commutative	a + b = b + a	a-b≠b-a	a×b=b×a	a÷b≠b÷a				
	Associative	(a + b) + c = a + (b + c)	(a - b) - c ≠ a - (b - c)	$(a \times b) \times c$ = a × (b × c)	(a ÷ b) ÷ c ≠ a ÷ (b ÷ c)				
	Distributive	a × (b + c) = ab + ac	a × (b - c) = ab - ac	Not applicable	Not applicable				
	about mul taking son Examples:	ation and tiplication ne problem	l division n and divis ms.	of intege	rs: explain egers by				
Elaborate	Make grou solve on p multiplica	ip of stude roperties tion.	ents, give of integer	some prol s under a	blems for ddition and	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher w Students v textbook.	rill assign vill solve a	some pro all the pro	blems to d blems giv	lo work. en in the	Textbook	Evaluation	Try to do all problems in textbook.	
Subj	ect teacher	T.SHIV	AKUMAR,	MMDRS HA	ARAPANAHAL	LI TOWN VIJAY	Head master o ANAGARA DIST MOB	or mistress/Principa	I

CHITTI CREATIONS Unit: 02 Methodology: Demonstration & lecture method. Unit name: FRACTIONS & DECIMALS. **Date: From** to **Objectives:** 1. Concept of fractions & decimals. 2. To learn how to add and subtract fractions and decimals. 3. Multiplication and division of fractions and decimals. Teachers Evaluation TIME <u>Steps</u> Activities To Favourable For Learning TLM Tools & Introspection Techniques Discussion & Start the session by checking the previous Chart, Will try to knowledge ask some question regarding to the Engage Ppt group answers numbers. Students already learnt about this. color chalks. discussion. Teacher will ask the class about numbers, chalks, Answering for Questionnaire fractions. After getting different answers from **Explore** chart, ppt. supplementary class, then introduce the chapter. projector questions.

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	CHITTI CRE	ATIONS			
Explain	Introduction: start the class by explaining fractions and decimals. Do some problems as we done in the previous year on this chapter. Addition, subtraction, multiplication & division of fractions: Explain how to add, subtract, multiply and divide the fraction by taking different examples. Fractions – Addition, Subtraction, Multiplication & Division Practice Add or subtract. Simplify. $\frac{9}{6} + \frac{9}{8} + \frac{3}{4} + \frac{15}{8} + \frac{3}{4} + \frac{15}{8} + \frac{3}{4} + \frac{15}{8} + \frac{3}{4} + \frac{15}{8} + \frac{1}{4} + \frac{1}{6} + \frac{12}{12}$	Projector Ppt. Marker Chart	Discussion & group activities		
	Addition, subtraction, multiplication & division of decimals: Explain how to add, subtract, multiply and divide the decimals by taking different examples.				
Elaborate	Make group of students, give some problems for solve on fractions and decimals. Guide them to solve those problems.	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.	
Subj	ect teacher T.SHIVAKUMAR, MMDRS HARAPANAHAI	LI TOWN VIJAY.	Head master of ANAGARA DIST MOB	r mistress/Principa .9916142961 4	l

Unit: 03

Methodology: Demonstration & project method.

Unit name: DATA HANDLING.

Date: From to

Objectives:

- 1. To understand the concept of collection of data.
- 2. Concept of organizing data.
- 3. To learn about mean, medina and mode.
- 4. Concept of representation of data.
- 5. Chances and probability.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Start the session by checking the previous knowledge ask some question regarding to data. Students already learnt about this in class 6 th .	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class about representing numbers in table and about data. After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

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	CHITTI CREA	ATIONS			
Explain	Introduction: start the class by explaining numbers and data. Do some problems as we done in the previous year on this chapter. Collection of data: Explain how we collect the data by using numbers and things. Do some different problems on this data. Mean median and mode: Explain about this concept by taking different examples. Representation of data: represent the given data as bar graph by taking different examples. <i>Birthday of Students by Month</i>	Projector Ppt. Marker Chart Geometry kit Geogebra Graph sheet	Discussion & group activities		
	Make group of students, give some problems for	Exercise	Activity	Discussion	
Elaborate	solve on fractions and decimals. Guide them to solve those problems.	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.	

Subje	ect teacher			Head master o	or mistress/Principa	al
Unit: 04 Methodology: Demonstration & lecture method.						
Uni	t name: SIMPLE EQUATION	S.				
Dat	e: From to					
<u>Obj</u>	<u>ectives:</u>					
1.	. Concept of equation.					
2.	. Concept solving an equation.					
3.	. To learn about more equations					
4	. Applications of simple equation	ns to bring practical	situation.			
				Evaluation	Teachers	
<u>eps</u>	Activities To Favourable	For Learning	TLM	Tools &	Introspection	ME
-				Techniques		TII
	Start the session by checking th	le previous	Chart,	Discussion &	Will try to	
gage	knowledge ask some question e	equations. Students	Ppt	group	answers	
	already learnt about this in clas	ss 6 th .	color chalks.	discussion.		
	Teacher will ask the class the q	uestions like 'if we	chalks,	Questionnaire	Answering for	
olore	add 14 to a number, we will get	20. What is that	chart, ppt.		supplementary	
	number?'. Ask some more ques	tions like this,	projector		questions.	
	After getting different answers	from class, then				
	introduce the chapter.					

	CHITTI CRE	ATIONS			
		_	-		
Explain	Introduction: start the class by explaining about equations. Simplify some problems. Solution of an equation: Explain how to simplify an equations with different examples. Solution to an Equation A value for a variable that makes an equation TRUE	Projector Ppt. Marker Chart	Discussion & group activities		
	$2 + x = 4 (x = 2)$ $2 + 2 = 4$ $4 = 4 \checkmark$ $23 = 23 \checkmark$ Applications level problems: Explain how to solve the problems on application basis. $4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 + 4 +$				
Elaborate	Make group of students, give some problems for solve on simple equations. Guide them to solve those problems.	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.	
Subj	ect teacher T.SHIVAKUMAR, MMDRS HARAPANAHA	LLI TOWN VIJAY.	Head master o ANAGARA DIST MOB	r mistress/Principa .9916142961 8	1

		СНІТТ	I CREATIONS			
Uni	t: 05	Methodol	ogy: Demonstra	tion & lecture n	nethod.	
Uni	t name: LINE	S AND ANGLES.				
Dat	e: From	to				
<u>Obj</u>	<u>ectives:</u>					
1	. Concept of con	mplementary angles.				
2	. Concept of lin	ear pair.				
3	. To learn abou	t vertically opposite angles.				
4	. To learn abou	t of pair of lines and parallel lin	es.			
<u>teps</u>	Activitie	es To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
gage	Teacher will te they learnt in learnt about li	est the class by asking questions the previous year. Students alre nes, points ect.	s Chart, eady Ppt color chalks.	Discussion & group discussion.	Will try to answers	
plore	Teacher will a is point, straig like this, After class, then intr	sk the class the questions like 'v ht line?'. Ask some more questi getting different answers from oduce the chapter.	what chalks, ons chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CRE	ATIONS		
Explain	Introduction: start the class by explaining about straight line. Then introduce the chapter. Complementary angles: Explain how the complementary angles will have with different examples. Complementary Angles - Angles whose sum is 90°. $1 \times 40^{\circ}$ $2 \times 40^{\circ} = 90^{\circ}$ $1 \times 40^{\circ}$ $2 \times 40^{\circ} = 40^{\circ}$ Vertically opposite angles: Explain about V.O.A.	Projector Ppt. Marker Chart Geometry kit Geogebra	Discussion & group activities	
Elaborate	Make group of students, then give some activities on above concepts.	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.
Subi	ect teacher		Head master o	r mistress/Principal

Unit: 06Methodology: Demonstration & lecture method.Unit name: THE TRIANGLES AND ITS PROPERTIES.Date: From toObjectives:1. Concept of median of triangles.2. Concept of altitudes of a triangles.

- 3. Angle sum property of a triangle.
- 4. Types of triangles.
- 5. To learn about right angled triangle and Pythagoras theorem.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will test the class by asking questions they learnt in the previous year. Students already learnt about lines, and angles in previous chapter.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class the questions like 'what is lines and angles?'. Ask some more questions like this, After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CREA	ATIONS			
Explain	Angles: start the class by explaining about triangles, type of triangles and its median. Angle sum property: There is a remarkable property connecting the three angles of a triangle. Explain about this angle sum property with examples. Right angled triangle and pythgoras theorem: Explain about right angled triangle and prove Pythagoras theorem. $a \xrightarrow{c} b$ $a^2 + b^2 = c^2$	Projector Ppt. Marker Chart Geometry kit	Discussion & group activities		
Elaborate	Make group of students, then give some activities on above concepts. Guide them to solve additional problems on this chapter.	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				
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Unit: 07

Methodology: Demonstration & lecture method.

Unit name: CONGRUENCY OF TRIANGLES.

Date: From to

Objectives:

- 1. Concept of congruence.
- 2. Congruency of plane figures.
- 3. Congruency of triangles.
- 4. To learn of criteria of congruency of triangles.
- 5. To understand Congruency among the right angled triangle.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will test the class by asking questions they learnt in the previous chapter. Triangles, Types of triangles & Right angled triangles ect.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class the questions like 'what is triangles, tell about types of triangles?'. Ask some more questions like this, After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

Explain	Congruency: start the class by explaining about congruency, by taking different examples.	Projector Ppt. Marker Chart Geometry kit Same things for showing the congruency	Discussion & group activities	
Elaborate	Make group of students, then give some activities on above concepts. Guide them to solve additional problems on this chapter.	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 T.SHIVAKUMAR, MMDRS HARAPANAHAL	LI TOWN VIJAYA	Head master of ANAGARA DIST MOB	r mistress/Principal 9916142961 14

Unit: 08

Methodology: Demonstration & lecture method.

Unit name: COMPARING QUANTITIES.

Date: From to

<u>Objectives:</u>

- 1. Concept of ratios & equivalent ratios.
- 2. Percentage.
- 3. Comparing ratios to percentage and vice versa.
- 4. To learn about profit and loss.
- 5. Concept of simple interest.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will checking pupils previous knowledge they learnt. Ask the questions related to ratios, fractions, & proportions.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Teacher will ask the class the questions like 'what is ratios, what is proportion?'. Ask some more questions like this, After getting different answers from class, then introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	Equivalent ratios: Therefore, the ratio 1:2 is not equivalent to the ratio 2:3. Use of such	Projector Ppt.	Discussion & group activities		
	comparisons by using different examples.	Marker			
	Percentage: Per cent is derived from Latin word	Chart			
	'per centum' meaning 'per hundred'.				
	Converting Fractional Numbers to Percentage:				
Explain	To compare fractional numbers, we need a common denominator.				
-	Profit or loss: A shopkeeper bought a chair for `				
	375 and sold it for $\hat{400}$. Find the gain Percentage.				
	Do some more examples on it.				
	Simple interest: Interest Rate Formula				
	Simple Interest = $\frac{P \times R \times T}{100}$				
	So some more problems on this simple interest then motivate them to solve the problems.				
Elaborate	Make group of students, then give some activities on above concepts. Guide them to solve additional problems on this chapter.	Exercise problems In textbook	Activity	Discussion with students	
Evaluate	Teacher will assign some problems to do work.	Textbook	Evaluation	Try to do all	
	Students will solve all the problems given in the			problems in	
			1	tertbook.	
Subje	ect teacher		Head master or	r mistress/Principal	l
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Unit: 09

Methodology: Demonstration & lecture method.

Unit name: **RATIONAL NUMBERS**.

Date: From to

<u>Objectives:</u>

- 1. Concept of rational numbers.
- 2. To represents the rational numbers on number line.
- 3. Rational numbers in standard form.
- 4. Operations on rational numbers.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will checking pupils previous knowledge they learnt. Ask the questions related numbers fractions & fundamental operations on numbers.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking the question on integers, number systems and so on. After getting different answers from the class, introduce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	Bational numbers: A rational number is defined	Projector	Discussion &	
	as a number that can be expressed in the form n a	Dot	droup activition	
1	as a number that can be expressed in the form $p q$ where p and q are integers and $q \neq 0$	r pt. Markor	group activities	
	, where p and q are integers and $q \neq 0$.	Chart		
	Rational numbers on a number line: explain			
	about this concept by taking different examples.	Number line		
	$\leftarrow + + + + + + + + + + + + + + + + + + +$			
	$-\frac{-3}{2}$ $-\frac{2}{2}$ $-\frac{1}{2}$ $\frac{0}{2}$ $\frac{1}{2}$ $\frac{2}{2}$ $\frac{3}{2}$ $\frac{4}{2}$ $\frac{5}{2}$ $\frac{6}{2}$ $\frac{7}{2}$ $\frac{8}{2}$			
Explain				
	OPERATIONS ON RATIONAL NUMBERS:			
	Explain about addition, subtract, multiply and			
	divide the rational numbers by taking different			
	examples			
	Dational Numbers Operation			
	Rational Numbers Operation			
	(1). Addition [+]			
	(2). Subtraction [-]			
	(3). Multiplication [x]			
	(4) Division $[\pm]$			
1 1			A	
	Make group of students, then give some problems	Exercise	Activity	Discussion
Elaborate	to solve themselves. Guide them to solve	problems		with students
	additional problems on this chapter.	In textbook		
Evaluate	Teacher will assign some problems to do work.	Textbook	Evaluation	Try to do all
	Students will solve all the problems given in the			problems in
	textbook.			textbook.
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Subje			Head master of	r mistress/Principal
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		CHITTI CREA	ATIONS			
Unit	t: 10	Methodology: Demo	onstration &	learning with	doing method.	
Unit	t name: PRACTICAL C	iEOMETRY.				
Date	e: From to					
<u>Obje</u>	<u>ectives:</u>					
1.	Concept of constructing	the plane figure.				
2.	To construct triangles.					
3.	Different methods of cor	nstructing the triangles.				
		0 0	Γ	1		
				Evaluation	Teachers	[1]
<u>teps</u>	Activities To Favor	urable For Learning	TLM	Tools &	Introspection	[M]
				Techniques		Τ
	Teacher will checking pu	pils previous knowledge	Chart,	Discussion &	Will try to	
gage	they learnt. Ask the ques	tions related plane	Ppt	group	answers	
	figures.	•	color chalks.	discussion.		
		.1 .1 .1				
,	Start the session by askin	ng the question on line	chalks,	Questionnaire	Answering for	
plore	segments, plane figures a	and triangles. After	chart, ppt.		supplementary	
	getting different answers	s from the class, introduce	projector		questions.	
	the chenter		1	1		

	Methods of constructing the triangles when	Projector	Discussion &		
	1. SSS: construct when side, side, side given.	Ppt.	group activities		
	*	Marker	8F		
	9 cm	Chart			
	o cm	Geometry			
	2. SAS: construct when side, angle, side given.	kit			
		Geogebra			
Explain	6 cm P 7 cm 0				
	3. ASA: Construct when angle, side, angle given.				
	4. RHS: Construct when right angle given.				
	P 6 cm Q				
	Make group of students, then give some problems	Exercise	Activity	Discussion	
Elaborate	to construct themselves on above concept.	problems In textbook		with students	
Evaluate	Teacher will assign some problems to construct	Textbook	Evaluation	Try to do all	
	the triangles. Students will construct all problems			problems in	
l I	given in the textbook.			textbook.	
Subje	ect teacher		Head master of	r mistress/Principal	
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Unit Unit	t: 11 Methodology: t name: PERIMETER & AREA .	Demonstratio	n & problem so	lving method.	
Date	e: From to				
<u>Obje</u>	<u>ectives:</u>				
1.	Concept of perimeter and area.				
2.	. To find perimeter and area of squares and rectan	gles.			
3.	To find perimeter and area of triangles.				
4.	To find the area of parallelogram.				
5.	To find area & perimeter of circles.				
6.	To solve application level problems.				
<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will checking pupils previous knowledge they learnt. Ask the questions related plane figures.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	

figures.color chalks.discussion.ExploreStart the session by asking the question on
squares, rectangles, circles and parallelograms to
come perimeter and area. After getting different
answers from the class, introduce the chapter.color chalks.Questionnaire
squares.Answering for
supplementary
questions.

	CHITTI CREA	ATIONS			
Explai	 Introduction: explain about perimeter and area. Squares and rectangles: now teacher will introduce perimeter and area of squares and rectangles. Squares and rectangles: now teacher will introduce perimeter and area of squares and rectangles. Triangles: now teacher will introduce perimeter and area of triangles. Parallelograms: now teacher will introduce perimeter and area parallelograms. Circles: now teacher will introduce perimeter and area of circles. By taking different examples do some problems on these above concept. 	Projector Ppt. Marker Chart Modals 3D shapes	Discussion & group activities		
Elabora	Make group of students, then give some problemsteto solve themselves. Guide them to solveadditional problems on this chapter.	Exercise problems In textbook	Activity	Discussion with students	
Evaluat	 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.	
Si	ıbject teacher T.SHIVAKUMAR, MMDRS HARAPANAHAL	LI TOWN VIIAY.	Head master o ANAGARA DIST MOB	r mistress/Principal	l

Uni	t name: ALG	EBRAIC EXP	RESSIONS.			
Dat	e: From	to				
<u> Obj</u>	<u>ectives:</u>					
1	. Concept of alg	gebraic express	ions.			
2	. Concept of ter	rms.				
3	. Like and unlil	ke terms.				
4	. Concept of po	lynomials.				
5	. Addition and	subtractions of	polynomials.			
6	. To find the va	lue of an expre	ssion.			
<u>eps</u>	Activiti	es To Favourab	le For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection
gage	Teacher will c they learnt. As constant term	hecking pupils sk the questions s ect.	previous knowledge s related variables,	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers
olore	Start the sessi variables and answers from	on by asking th constant. After the class, intro	e question on terms, getting different duce the chapter.	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.

	CHITTI CREA	ATIONS			
		1			
Explain	Introduction: We have already come across simple algebraic expressions like $x + 3$, $y - 5$, $4x + 5$, $10y - 5$ and so on. TERMS OF AN EXPRESSION: We shall now put in a systematic form what we have learnt above about how expressions are formed. LIKE AND UNLIKE TERMS: When terms have the same algebraic factors, they are like terms. When terms have different algebraic factors, they are unlike terms. MONOMIALS, BINOMIALS, TRINOMIALS AND POLYNOMIALS: $Monomial \\ four \\ four \\ four \\ four \\ four \\ four \\ frems \\ -2x^5 \\ x^2 + 5 \\ x^$	Projector Ppt. Marker Chart	Discussion & group activities		
Elaborate	Make group of students, then give some problems to solve themselves. Guide them to solve additional problems on this chapter.	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.	
Subjo	ect teacher		Head master of	r mistress/Principal	l

			CHITTI CRE	EATIONS			
Uni	t: 13		Methodology:	Demonstrat	ion & lecture n	nethod.	
Uni	t name: EXPC	DNENTS AND H	POWERS.				
Dat	e: From	to					
<u>Obj</u>	<u>ectives:</u>						
1	Concept of exp	oonents.					
2	To learn about	t of laws of expo	nents.				
3	Concept of dec	cimal number sy	stems.				
<u>iteps</u>	Activitie	es To Favourable	For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
ngage	Teacher will ch they learnt. As operations on	necking pupils p k the questions numbers ect.	revious knowledge related numbers,	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
plore	Start the session number system so on. After get class, introduct	on by asking the ns, multiplicatio tting different ar e the chapter.	question on ns of numbers and nswers from the	chalks, chart, ppt. projector	Questionnaire	Answering for supplementary questions.	

	CHITTI CRE	ATIONS			
Explair	Introduction: Distance between Sun and Saturn is 1,433,500,000,000 m and distance between Saturn and Uranus is 1,439,000,000,000 m. Can you read these numbers?. Like this questions, then do some problems on exponents. Laws of exponents: explain about all the 5 laws of exponents with different examples. $\frac{a^m a^n = a^{mnn}}{(2^3)^4 = 2^{34} = 2^7 = 128}$ $(a^m)^n = a^{mn} (2^3)^4 = 2^{34} = 2^{12} = 4096$ $(ab)^n = a^n b^n (20)^3 = (2.10)^3 = 2^3.10^3 = 8.1000 = 8000$ $(\frac{a}{b})^n = \frac{a^n}{b^n} (\frac{2}{5})^3 = \frac{2^3}{5^3} = \frac{8}{125}$ $\frac{a^m}{a^n} = a^{m-n} \qquad \frac{2^5}{2^3} = 2^{5-3} = 2^2 = 4$	Projector Ppt. Marker Chart	Discussion & group activities		
Elabora	 write the longest numbers in decimal form, then do some problems on it. Make group of students, then give some problems to solve themselves. Guide them to solve additional problems on this chapter. 	Exercise problems In textbook	Activity	Discussion with students	
Evaluati	 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	bject teacher		Head master o	r mistress/Principa	l

Unit: 14

Methodology: Demonstration & project method.

Unit name: **SYMMETRY**.

Date: From to

<u>Objectives:</u>

1. Concept of symmetry.

2. Lines of symmetry for regular polygons.

3. Concept of rotational symmetry.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will checking pupils previous knowledge they learnt. Ask the questions related lines, points ect.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking the question on plane figures, lines. After getting different answers from the class, introduce the chapter.	chalks, chart, ppt. projector modals	Questionnaire	Answering for supplementary questions.	

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	CHITTI CRE	ATIONS			
Explain	Introduction: Symmetry is an important geometrical concept, commonly exhibited in nature and is used almost in every field of activity. LINES OF SYMMETRY FOR REGULAR POLYGONS: explain about polygons, symmetric figures with different pictures. ROTATIONAL SYMMETRY: Explain about rotational symmetry by taking different pictures.	Projector Ppt. Marker Chart	Discussion & group activities		
Elaborate	Make group of students, then give some problems to solve themselves. Guide them to solve additional problems on this chapter.	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 T.SHIVAKUMAR, MMDRS HARAPANAHALLI TOWN VIJAYANAGARA DIST MOB.9916142961					

Unit: 15Methodology: Demonstration & project method.

Unit name: **VISUALIZING SOLID SHAPES**.

Date: From to

<u>Objectives:</u>

- 1. Concept of plane figures and solid shapes.
- 2. Concept of faces, vertices and edges.
- 3. Concept of isometric sketches.
- 4. Different sections of a solid.

<u>Steps</u>	Activities To Favourable For Learning	TLM	Evaluation Tools & Techniques	Teachers Introspection	TIME
Engage	Teacher will checking pupils previous knowledge they learnt. Ask the questions related lines, points ect.	Chart, Ppt color chalks.	Discussion & group discussion.	Will try to answers	
Explore	Start the session by asking the question on plane figures, lines. After getting different answers from the class, introduce the chapter.	chalks, chart, ppt. projector modals	Questionnaire	Answering for supplementary questions.	

	CHITTI CREA	ATIONS		
Explain	Introduction: In our day to day life, we see several objects like books, balls, ice-cream cones etc., around us which have different shapes. FACES, EDGES AND VERTICES: explain about faces, edges and vertices of different types of solid figures.	Projector Ppt. Marker Chart 3D shaped figures	Discussion & group activities	
Elaborate	Make group of students, then give some problems to solve themselves. Guide them to solve additional problems on this chapter.	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				
T.SHIVAKUMAR, MMDRS HARAPANAHALLI TOWN VIJAYANAGARA DIST MOB.9916142961 16				