

CLASS – X
LESSON PLAN
CHAPTER-3: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES

Unit	Algebra (Chapter 3: Pair of Linear Equations in Two Variables)
Class Transaction	Total: 15 periods (approx. 40 min each)
Pre-requisite for the course	This lesson requires 1. Basic knowledge of linear equations in two variables and their plotting patterns. 2. Knowledge of lines passing through the origin, x axis, y axis 3. Knowledge of parallel to x axis, y axis.
Assessment of qualifying knowledge	1. Written test 2. Lab activity 3. HW notebook
Objective	The learner will be able to- • The standard form of linear equation in two variables. • The graphical method of solving the linear equations in two variables. • The Algebraical methods like elimination, substitution and cross multiplication. • A pair of linear equations is inconsistent, if it has no solution. • A pair of linear equation is consistent, if it has solution. • To convert day to day life, methemathematical statements into linear equation in two variable and find it solution.
Learning Outcomes	<u>KNOWLEDGE-</u> <i>Students will know and understand</i> 1. Understand to represent the algebraic situations algebraically and graphically. 2. Graphical, substitution, elimination, cross multiplication methods of solving linear equations. 3. Solving linear equations applicable in daily life. <u>SKILLS-</u> <i>Students would be able to critically and creatively</i> 1. Solve algebraic problems 2. Use appropriate methods to solve the given linear equation. 3. Solve complex questions based on the topics 4. Use analytical skills to visualize the given scenario and use the concepts learnt in everyday problems.
Transaction Methodology (The teacher can use the mentioned techniques, wherever	Transaction would proceed in the following manner- Strategies Used: Graphic Organizers, think pair and share, Numbered Heads, Brainstorming Numbered Heads: Students are placed in groups and each person is given a number (from one to the maximum number in each group). The teacher poses a question and students "put their heads together" to figure out the answer. The teacher calls a specific number to respond as spokesperson for the group. Graphic Organizers: Graphic organizers are some of the most effective

applicable, and can use any other too.)	visual learning strategies for students and are applied across the curriculum to enhance learning and understanding of subject matter content. Think Pair and Share: In this activity, students think about a particular question individually, then they form pairs to discuss their answers. Following this, the results are shared in a large classroom discussion. Alternatively, two pairs of students can pair up to compare and discuss answers. This process forces students to think individually, and then allows them to analyze and clarify their response collaboratively. Brain Storming: In this activity, students are asked to generate ideas on a certain topic, category or question while facilitator facilitate and record the answers on the board. <i>Story Boarding</i> -The class would start with a discussion on what the students have already learnt in the previous classes and hence what is it that they would learn now. They would also be told the significance of the topic that they would be studying. <i>Introduction of the topic-</i> ppt and Digital Content would be shared <i>Guided practice followed by Independent Practice-</i> NCERT questions to be discussed in the classroom. Techniques to be used: Quiz Daily Practice Problem MCQ Peer Assessment Case Studies Lab Activities Any Other								
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar								
Self Study, Home Work, Assignments	Independent Practice: Students would do some questions from NCERT and Exemplar in their H.W notebooks HW notebooks to be marked as per the given plan: <i>Assessment Parameters:</i> The total marks for the activity is 5 marks On time submission.....1 mark Presentation/ Neatness.....1 mark Content.....3 marks								
Assessments	Through Pen Paper Test Students will be assessed creatively and critically <table> <tr> <td>3 UNIT TESTS (20, 30, 30)</td> <td>80 Marks</td> </tr> <tr> <td>MID TERM EXAMINATION</td> <td>80 Marks</td> </tr> <tr> <td>HALF YEARLY EXAMINATION</td> <td>80 Marks</td> </tr> <tr> <td>PRE BOARD-I EXAMINATION</td> <td>80 Marks</td> </tr> </table>	3 UNIT TESTS (20, 30, 30)	80 Marks	MID TERM EXAMINATION	80 Marks	HALF YEARLY EXAMINATION	80 Marks	PRE BOARD-I EXAMINATION	80 Marks
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	PRE BOARD-II EXAMINATION 80 Marks ANNUAL BOARD EXAMINATION 80 Marks PERIODIC TEST Average of the best two tests to be taken that will have a weightage of 10 marks. Best 2 Tests out of: Units tests, Midterm examination, Half Yearly examination. INTERNAL ASSESSMENT 20 Marks - Periodical Test 10 Marks - Note Book Submission 05 Marks - Lab Practical (Subject Enrichment) 05 Marks Through lab Practical Students are assessed for Collaboration, Character building, Character Building.
Addressing Classroom Diversity	Due to various social backgrounds and multiple intelligences, the classroom might be a diverse arena. The following techniques can be used for various groups: <i>For gifted students:</i> - High order thinking questions from NCERT Exemplar - Encouragement for referring other resources <i>For weak students:</i> - Buddy help to be provided - Provide grade-up classes <i>For differently abled students:</i> - Ignore spelling mistakes and formulae, if not written - Call parents at regular intervals - Provide grade-up classes
Marks	The weightage would be given by CBSE.
Assessment Questions	Q1 Show that the pair of equations $2x-3y=6$, $x + y =1$. has a unique solution. Q2 Solve algebraically the pair of equations: $2x - y=5$, $3x+2y=11$ Q3 The sum of the digits of a two digit number is 12. The number obtained by interchanging the two digits exceeds the given number by 18. Find the number. Q4 Solve the following system of equations graphically and from the graph, find the points where these lines intersect the y-axis: $x-2y = 2$, $3x + 5y = 17$. Q5 A man travels 370 km partly by train and partly by car. If he covers 250 km by train and rest by car, it takes him 4 hours. But if he travels 130 km by train and rest by car, he takes 18 minutes longer. Find the speed of the train and that of the car

DAY	ONE
Objective	Identify different axes and plot points on them
Assessment of qualifying knowledge	Quiz and knowledge testing on coordinate axes and plane.
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the different axes and points on the, difference between linear and quadratic equation and number of equations required to solve a set of equations with a given number of variables. <u>SKILLS and COMPETENCIES</u> Students would be able to Relate linear equations with everyday life and its uses.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Brainstorming Anticipatory Set: 10 min Facilitator will ask few questions to introduce the topic • What is an equation $ax + by + c = 0$ called? • How many solutions does a linear equation in two variables have? • What type of graph of a linear equation in two variables you will find? • What is the equation of y-axis? • What is the equation of x-axis? • What is the equation of a straight line parallel to y-axis? • What is the equation of a straight line parallel to x-axis? • What will be the equation of a line passing through the origin? • Is every point on the graph of a linear equation in two variables is a solution of the linear equation? • Can you plot the equation $x+y=4$? Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to make a coordinate axis and see if it they can plot the linear equation on the graph sheet. Then they would be given another equation and if that can also be plotted on the same graph sheet. Students would then be asked if they can find solution to the given equations algebraically also. Guided practice: 10 min The students will try to solve the given equations in groups Independent Practice: Students will go through the solved examples before Ex 3.1 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)

DAY	TWO
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.1
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for sloving equations. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Think pair and Share Anticipatory Set: 10 min The students would be given various examples of graphical method for solving linear equations in two variables. Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.1 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.2 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would some questions from NCERT in their H.W. notebooks
Assessments	Oral Test (5 minutes)
DAY	THREE
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.1
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for sloving equations.

	SKILLS and COMPETENCIES Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Think Pair and Share Anticipatory Set: 10 min The students would be given various examples of graphical method of solving linear equations in two variables. Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.1 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.1 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	FOUR
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.2
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for solving equations. SKILLS and COMPETENCIES Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Inquiry Based learning Anticipatory Set: 10 min The students would be given various examples of conditions for consistency in linear equations in two variables. Discussion of topic through Collaborative Learning: 15 min

	<u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.2 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.2 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	FIVE
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.2
Learning Outcomes	KNOWLEDGE- <i>Students will know and identify the correct method for solving equations.</i> SKILLS and COMPETENCIES <i>Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Inductive Reasoning Anticipatory Set: 10 min The students would be given various examples of conditions for consistency in linear equations in two variables. Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.2 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.2 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.

Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	SIX
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.3
Learning Outcomes	<u>KNOWLEDGE</u> - Students will know and identify the correct method for solving equations. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Brainstorming Anticipatory Set: 10 min The students would be given various examples of how to solve equations by Substitution method Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.3 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.3 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)

DAY	SEVEN
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.3
Learning Outcomes	KNOWLEDGE- <i>Students will know and identify the correct method for sloving equations.</i> SKILLS and COMPETENCIES <i>Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Numbered Heads Anticipatory Set: 10 min The students would be given various examples of how to solve equations by Substitution method Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.3 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.3 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	EIGHT
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.4
Learning Outcomes	KNOWLEDGE- <i>Students will know and identify the correct method for sloving equations.</i>

	<u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Numbered Heads Anticipatory Set: 10 min The students would be given various examples of how to solve equations by Elimination method Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.4 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.4 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	NINE
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.4
Learning Outcomes	<u>KNOWLEDGE-</u> Students will know and identify the correct method for solving equations. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Think pair and share Anticipatory Set: 10 min The students would be given various examples of how to solve equations by Elimination method

applicable, and can use any other too.)	Discussion of topic through Collaborative Learning: <u>15 min</u> <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.4 and facilitator would take rounds and help students as and when required. Guided practice: <u>10 min</u> and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.4 of NCERT text book. Closure: <u>5 min</u> A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	TEN
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.5
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and identify the correct method for solving equations.</i> <u>SKILLS and COMPETENCIES</u> <i>Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Anticipatory Set: <u>10 min</u> Strategies Used: Inquiry Based Learning The students would be given various examples of how to solve equations by Elimination method Discussion of topic through Collaborative Learning: <u>15 min</u> <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.5 and facilitator would take rounds and help students as and when required. Guided practice: <u>10 min</u> and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.5 of NCERT text book. Closure: <u>5 min</u> A short oral test would be taken to check proper assimilation of the topic

	discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	ELEVEN
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.5
Learning Outcomes	<u>KNOWLEDGE</u> - Students will know and identify the correct method for solving equations. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Brainstorming Anticipatory Set: 10 min The students would be given various examples of how to solve equations by cross multiplication method Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.5 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.5 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)

DAY	TWELVE
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.5
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for sloving equations. <u>SKILLS</u> and <u>COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Brainstorming Anticipatory Set: 10 min The students would be given various examples of how to solve equations by cross multiplication method Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.5 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.5 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	THIRTEEN
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.6
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for sloving equations. <u>SKILLS</u> and <u>COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of

	equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Deductive Reasoning Anticipatory Set: 10 min The students would be given various examples of how to solve equations which are reducible to linear form. Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students would be asked to solve questions from Ex 3.6 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.6 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	FOURTEEN
Objective	Identify when to use which method and use it effectively.
Assessment of qualifying knowledge	Test for Ex 3.6
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the correct method for solving equations. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically regarding the use of appropriate method for solving a given set of equations.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Brainstorming Anticipatory Set: 10 min The students would be given various examples of how to solve equations which are reducible to linear form. Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving)

	Students would be asked to solve questions from Ex 3.6 and facilitator would take rounds and help students as and when required. Guided practice: 10 min and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 3.6 of NCERT text book. Closure: 5 min A short oral test would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.
Assessments	Oral Test (5 minutes)
DAY	FIFTEEN
Objective	Demonstrate the ability to solve questions with 90% accuracy
Assessment of qualifying knowledge	Quiz and knowledge testing on linear equations in two variables
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and identify the concept of solving, linear equations and different methods. <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically differentiate between usage of different methods.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Strategies Used: Graphic Organizers Recapitulation: 5 min Oral Test would be taken up. Discussion of topic through Collaborative Learning: 10 min (Critical) Exemplar would be taken up. Guided Practice: 20 min The teacher would explain some questions from the Exemplar. Independent Practice: Students would try other questions from the Exemplar. Closure: 5 min Summarization, preferably by a student, would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would solve some questions from NCERT in their H.W. notebooks.

Assessments	Oral Test (5 minutes)