

CLASS – VIII
LESSON PLAN
CHAPTER-14: FACTORISATION

Unit	Factorization (Chapter 14: Factorization)
Class Transaction	Total: 15 periods (approx. 40 min each)
Pre-requisite for the course	This lesson requires 1. Basic knowledge factorization of natural numbers. 2. Knowledge algebra. 3. Knowledge of algebraic identities.
Assessment of qualifying knowledge	1. Written test 2. Lab activity 3. HW notebook
Objective	Students will be able to factorize algebraic expressions by taking terms common, by splitting middle term and by using identities. They will also be able to divide polynomials by one another, thereby inculcating competencies like collaboration, critical thinking and creativity
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will develop the ability to understand</i> 1. The factorization of polynomials. 2. Factorization using identities. 3. The method of division of expressions using factorization. SKILLS and COMPETENCIES- <i>Students would be able to</i> 1. Develop the ability to analyze the expressions and decide the method to be used for factorization. 2. Perform skills like division in the algebraic expressions and develop critical thinking and collaboration in the process.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Inductive deductive reasoning, muddiest point discussion, think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- <i>Brain Storming</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 1. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks. H.W. 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 It is also advised that the students come to the class with proper background knowledge of the topic under discussion. They can refer to the resources stated above.
Assessments	Through Pen Paper Test Students will be assessed creatively and critically 4 UNIT TESTS 20 Marks each HALF YEARLY EXAMINATION 80 Marks ANNUAL BOARD EXAMINATION 80 Marks INTERNAL ASSESSMENT 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> - Higher level questions to be done - Encouragement for referring other resources <i>For weak students:</i> - Basic level to be completed - 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 • Encourage and motivate them at every level.
Marks	The weightage would be given by CBSE.

Assessment Questions
1. Simplify: $-45p^3 \div 9p^2$ 2. Simplify: $4x^2y^2(3z - 24)$, $36xy(z - 8)$ 3. Divide: $81x^3(50x^2 - 98)$ by $27x^2(5x + 7)$ 4. Is $(a - 1)(b - 1)$ the factorisation of $(ab - a - b + 1)$ or $(ab - a + b - 1)$? 5. Regroup the terms and factorise: $z - 19 + 19xy - xyz$

DAY	ONE
Objective	Understand the basic factorization technique for polynomials.
Assessment of qualifying knowledge	Quiz and knowledge testing on types of polynomials and identifying coefficients.
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know the process of factorization of polynomials <u>SKILLS and COMPETENCIES</u> Students would be able to Reason effectively and critically and write down the factors of given expression.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Anticipatory Set: 10 min Facilitator will ask few questions to introduce the topic • What is factorization? • What are factors? Discussion of topic through Collaborative Learning: 15 min <u>Inquiry based learning</u> (Critical Thinking and Problem Solving) Students will be able to use method of common factors to factorize algebraic expressions by extending the technique of factorization of integers to polynomials Guided practice: 10 min The students will solve the questions from NCERT book, solved examples before Ex 14.1 in their notebook in the class with the help of their facilitator. The facilitator would take rounds and help the students in solving the questions. Independent Practice: Students will go through the solved examples before Ex 14.1.1 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 2. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Oral Test (5 minutes)
DAY	TWO
Objective	Students will be able to identify the techniques of factorization of monomials in a collaborative manner .

Assessment of qualifying knowledge	Written questions on factorization of monomials.
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and Demonstrate the ability to factorize monomials. <u>SKILLS and COMPETENCIES</u>- Students will be able to differentiate and classify different techniques of factorization.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Brainstorming on the previously taught concept would be done. Discussion of topic through Collaborative Learning: 15 min (Critical Thinking, Collaboration) Students will be given different expressions and will be asked to factorize those expressions. Guided practice: 15 min The students, with the help of the facilitator, will solve the questions from NCERT book of Exercise – 14.1, Q1 in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher's guidance. Independent Practice: Students will complete the remaining HW parts of Exercise 14.1 Q1 in their Math HW notebook. Students who would difficulty in solving the problem would solve with the help of their buddies. 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 3. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Oral quiz (5 minutes)
DAY	THREE
Objective	To solve the questions of Ex- 14.1 based on factorization of binomials.
Assessment of qualifying knowledge	Written questions on performing factorization on monomials and binomials.

Learning Outcomes	KNOWLEDGE- <i>Students will develop the ability to understand the methods of factorization of monomials and binomials.</i> SKILLS and COMPETENCIES - <i>Students would be able to critically apply the concepts in given situations and collaboratively perform the factorization on given expressions.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Muddiest point discussion Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral test on the previous concept would be taken up. Discussion of topic through Collaborative Learning: 15 min (Critical thinking) Examples related to exercise 14.1 Q2. would be discussed and students would solve different questions per group and then the questions would be crosschecked. Digital content would be used. The facilitator would take rounds and help students with their doubts. Guided Practice: 15 min The students will solve the questions from NCERT book of Exercise – 14.1, Q2. in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher’s guidance. Independent Practice: Students will complete the remaining HW parts of Exercise 14.1 Q2. in their Math HW notebook. 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 4. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	MCQ (5 minutes)
DAY	FOUR
Objective	To understand the method of regrouping for factorization
Assessment of qualifying knowledge	Written test on identifying the techniques for factorization of polynomials.
Learning Outcomes	KNOWLEDGE- <i>Students will develop the ability to understand the the method of regrouping for factorization</i> SKILLS and COMPETENCIES - <i>Students would be able to critically apply the concepts in given situations and collaboratively perform the factorization</i>

Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Muddiest point discussion Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: <u>5 min</u> Quick revision on the previous concept would be taken up. Discussion of topic through Collaborative Learning: <u>15 min</u> (Creativity, Collaboration) Examples related to exercise 14.1 Q3.would be discussed and students would solve different questions per group and then the questions would be crosschecked. Digital content would be used. The facilitator would take rounds and help students with their doubts. Guided Practice: <u>15 min</u> The students will solve the questions from NCERT book of Exercise – 14.1, Q3. in their notebook in the class with the help of their teacher. The teacher would ensure that each student tries to be independent at the work as well as be under the teacher’s guidance. Independent Practice: Students will complete the remaining HW parts of Exercise 14.1 Q3. in their Math HW notebook. Closure: <u>5 min</u> Discussion of muddiest point. .
Resources	Text Book: NCERT text book for Mathematics Reference Book 5. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Written test (5 minutes)
DAY	FIVE
Objective	To deepen the understanding of the factorization by regrouping .
Assessment of qualifying knowledge	MCQ on factorization based on ex 14.1.
Learning Outcomes	<u>KNOWLEDGE- Design</u> the ways of regrouping and see that a polynomial can be factorized by more than one way. <u>SKILLS and COMPETENCIES</u> - <i>Students would be able to</i> Comprehend that there can be more than one method of factorization, through collaborative learning.
Transaction Methodology (The teacher can use the mentioned techniques, wherever	Strategies used- Muddiest point discussion Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: <u>5 min</u> Quick revision on the previous concept would be taken up.

applicable, and can use any other too.)	Discussion of topic through Collaborative Learning: <u>15 min</u> (Critical Thinking, Collaboration) Students will be taught how a polynomial can be factorized using different techniques. Guided Practice: <u>15 min</u> The students will solve the worksheet questions given in class. The facilitator would take rounds and help the students in solving the questions. Independent Practice: Students will solve various questions provided to them. Closure: <u>5 min</u> Discussion of muddiest point. .
Resources	Text Book: NCERT text book for Mathematics Reference Book 6. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	MCQ (5 minutes)
DAY	SIX
Objective	To factorize algebraic expressions by splitting the middle term.
Assessment of qualifying knowledge	Written test on factorization by splitting the middle term.
Learning Outcomes	<u>KNOWLEDGE</u>- Students will know and understand the process of factorization of a quadratic polynomial. <u>SKILLS and COMPETENCIES</u> - Students would be able to 1. Apply the given knowledge with 100 % accuracy 2. Creatively form questions related to the concept and also solve them.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Muddiest point discussion, think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: <u>5 min</u> Oral test would be taken. Discussion of topic through Collaborative Learning: <u>15 min</u> (Critical Thinking) How to split the middle term by checking the factors of the product of last term and the first term. Guided Practice:<u>15 min</u> The students will solve the questions from NCERT book of Exercise – 14.2 Q1 in their notebook in the class with the help of their facilitator. Independent Practice: Students will complete the remaining HW parts of Exercise 14.2 Q1 in their Math HW notebook.

	Closure: <u>5 min</u> 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 7. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Written test (5 minutes)
DAY	SEVEN
Objective	To learn the different methods of factorization of a quadratic polynomial
Assessment of qualifying knowledge	Written test on factorization of a quadratic polynomial .
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. That different types of quadratic polynomials are factorized using different methods . <u>SKILLS and COMPETENCIES</u> - <i>Students would be able to</i> 1. Factorize the different types of quadratic polynomials by learning techniques.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: <u>5 min</u> Warming session would be taken. Discussion of topic through Collaborative Learning: <u>15 min</u> (Critical thinking, communication) Solved examples from the book would be taken up. Guided Practice: <u>20 min</u> The students will solve the questions from NCERT book of Exercise – 14.2 Q2 in their notebook in the class with the help of their facilitator. The facilitator would explain the questions from Ex 14.2 with a collaborative approach towards them. Independent Practice: Students will complete the remaining HW parts of Exercise 14.2 in their Math HW notebook. Closure: <u>5 min</u> 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 8. CBSE Exemplar
Self Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Written test (5 minutes)
DAY	EIGHT
Objective	To learn the different methods of factorization of a quadratic polynomial
Assessment of qualifying knowledge	Written test on factorization of a quadratic polynomial .
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. That different types of quadratic polynomials are factorized using different methods . <u>SKILLS and COMPETENCIES</u> - <i>Students would be able to</i> 2. Factorize the different types of quadratic polynomials by learning techniques.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min One-minute test would be taken. Discussion of topic through Collaborative Learning: 15 min (Creativity) Step by step discussion on multiplication of one polynomial with another. Digital content would be used. Guided Practice: 15 min The students will solve the questions from NCERT book of Exercise – 14.2 Q3 in their notebook in the class with the help of their facilitator. The facilitator would explain the questions from Ex 14.2 Q3 with a collaborative approach towards them. Independent Practice: Students will complete the remaining HW parts of Exercise 14,2 Q3 in their Math HW notebook. 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 9. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Written test (5 minutes)
DAY	NINE
Objective	To learn the different methods of factorization of a quadratic polynomial.

Assessment of qualifying knowledge	Written test on factorization of a quadratic polynomial .
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. That different types of quadratic polynomials are factorized using different methods . <u>SKILLS and COMPETENCIES</u> - <i>Students would be able to</i> Factorize the different types of quadratic polynomials by learning techniques.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Inductive deductive reasoning, think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral test would be taken. Discussion of topic through Collaborative Learning: 10 min (Communication and critical thinking) Solved examples from the book would be taken up. Mind mapping would be used and would discuss different questions Guided Practice: 20 min The teacher, as a facilitator, would explain the questions from Ex 14.2 Q4,5. Collaborative approach will be taken up towards them so that the facilitator would help them with their doubts. Independent Practice: Students will complete the remaining HW parts of Exercise 14.2 Q4,5 in their Math HW notebook. 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 10. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks .
Assessments	Oral test (5 minutes)
DAY	TEN
Objective	To learn the division of algebraic expressions using factorisation. (monomials)
Assessment of qualifying knowledge	MCQ test on division of monomials.
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will know and understand</i> 1. That during division of polynomials common factors can be cancelled out

	<u>SKILLS and COMPETENCIES</u> - <i>Students would be able to</i> 2. Develop various techniques for factorization and division of polynomials
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral test would be taken. Discussion of topic through Collaborative Learning: 10 min (Communication and critical thinking) Solved examples from the book would be taken up. Mind mapping would be used and would discuss different questions Guided Practice: 20 min The teacher, as a facilitator, would explain the questions from Ex 14.3 Q1. Collaborative approach will be taken up towards them so that the facilitator would help them with their doubts. Independent Practice: Students will complete the remaining HW parts of Exercise 14.3 Q1 in their Math HW notebook. 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 11. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.
Assessments	MCQ test (5 minutes)
DAY	ELEVEN
Objective	To learn the division of algebraic expressions using factorisation
Assessment of qualifying knowledge	MCQ test on division of polynomials by factorization.
	Apply the concepts and evaluate the given questions with 90% accuracy
Learning Outcomes	<u>KNOWLEDGE</u>- <i>Students will understand the process of factorization and then its usage for division</i> <u>SKILLS and COMPETENCIES</u> - <i>Students would be able to Critically visualise how the polynomials are factorized.</i>
Transaction Methodology (The teacher can use the mentioned techniques, wherever	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral test would be taken. Discussion of topic through Collaborative Learning: 10 min

applicable, and can use any other too.)	(Communication and critical thinking) Solved examples from the book would be taken up. Mind mapping would be used and would discuss different questions Guided Practice: 20 min The teacher, as a facilitator, would explain the questions from Ex 14.3 Q2,3. Collaborative approach will be taken up towards them so that the facilitator would help them with their doubts. Independent Practice: Students will complete the remaining HW parts of Exercise 14.2 Q2,3 in their Math HW notebook. 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 12. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.
Assessments	MCQ test (5 minutes)
DAY	TWELVE
Objective	To learn the division of algebraic expressions using factorisation
Assessment of qualifying knowledge	MCQ test on division of polynomials by factorization.
	Apply the concepts and evaluate the given questions with 90% accuracy
Learning Outcomes	<u>KNOWLEDGE</u>- Students will understand the process of factorization and then its usage for division <u>SKILLS</u> and <u>COMPETENCIES</u> - Students would be able to Critically visualise how the polynomials are factorized.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Think pair share. Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral Test would be taken up. Discussion of topic through Collaborative Learning: 15 min (Critical and creative thinking) Simplification using identities. Guided Practice: 15 min The students, with the help of the facilitator, will solve the questions from NCERT book of Exercise 14.3 Q4,5 in their notebook in the class with the help of their teacher. Independent Practice: Students will complete the remaining HW parts of Exercise 14.3 Q4,5 in their Math HW notebook. 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 13. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.
Assessments	Quiz (5 minutes)
DAY	THIRTEEN
Objective	To learn to identify the error in the given mathematical statements.
Assessment of qualifying knowledge	Written test on identification of errors.
Learning Outcomes	<u>KNOWLEDGE</u> - Students will understand the method and importance of finding out the errors <u>SKILLS and COMPETENCIES</u> - Students would be able to analyze and find out the errors in the given statements how the polynomials are factorized.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Inductive deductive reasoning Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral Test would be taken up. Discussion of topic through Collaborative Learning: 15 min Application of identities. Guided Practice: 15 min (Communication) The students, with the help of the facilitator, will solve the questions from NCERT book of Ex 14.4 in their notebook in the class with the help of their teacher. Independent Practice: Students will complete the remaining HW parts of Exercise 14.4 in their Math HW notebook. Closure: 5 min Summarization would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book 14. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.

Assessments	Oral test (5 minutes)
DAY	FOURTEEN
Objective	To learn to identify the error in the given mathematical statements.
Assessment of qualifying knowledge	Written test on identification of errors
Learning Outcomes	KNOWLEDGE- Students will <i>understand</i> the method and importance of finding out the errors 1. SKILLS and COMPETENCIES - Students would be able to <i>analyze</i> and find out the errors in the given statements how the polynomials are factorized..
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Strategies used- Muddiest point discussion Dimensions Of Learning- D2,D3 Transaction would proceed in the following manner- Recapitulation: 5 min Oral Test would be taken up. Discussion of topic through Collaborative Learning: 15 min Application of identities. Guided Practice: 15 min (Communication) The students, with the help of the facilitator, will solve the questions from NCERT book of Ex 14.4 in their notebook in the class with the help of their teacher. Independent Practice: Students will complete the remaining HW parts of Exercise 14.4 in their Math HW notebook. Closure: 5 min Summarization would be taken to check proper assimilation of the topic discussed.
Resources	Text Book: NCERT text book for Mathematics Reference Book 15. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.
Assessments	Oral test (5 minutes)
DAY	FIFTEEN
Objective	Solving various levels of Questions
Assessment of qualifying knowledge	Oral test on various concepts being used in chapter.
Learning Outcomes	KNOWLEDGE- Students will know and understand 1. Various concepts being applied on algebraic expressions. SKILLS and COMPETENCIES - Students would be able to

	2. Recall the concepts and terms being used in chapter to solve the questions. 3. Critically Apply and solve the questions of various levels.
Transaction Methodology (The teacher can use the mentioned techniques, wherever applicable, and can use any other too.)	Transaction would proceed in the following manner- Recapitulation: 5 min Oral Test would be taken up. Discussion of topic through Collaborative Learning: 10 min (Critical) Basic level would be taken up. Guided Practice: 20 min The teacher would explain the questions from the Basic level . Independent Practice: Students would try higher level questions. 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 16. CBSE Exemplar
Self-Study, Home Work, Assignments	Independent Practice: Students would do the given questions in their H.W. notebooks.
Assessments	Oral test (5 minutes)