

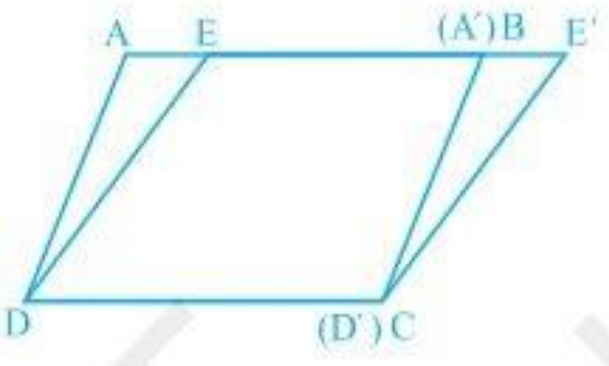
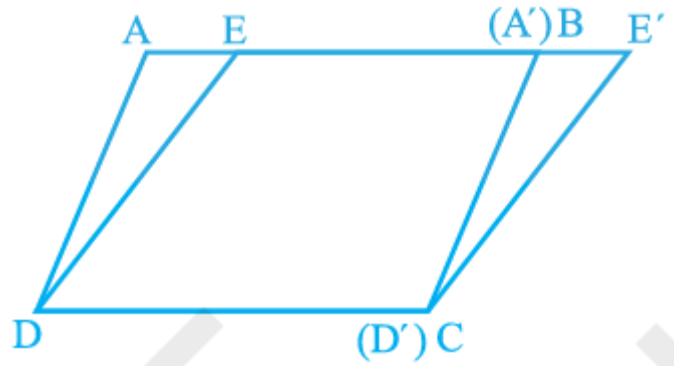
LESSON PLAN



Class	Subject	Time slot	Lesson	Topic P2
IX	Mathematics	35 Mins 1 Pd	Area of Parallelograms and Triangles	□ Parallelograms on the same Base and Between the same Parallels
Expected Learning Outcome: Learners will be able to 1) Identify the parallelograms having the same base and lying between the same parallels 2) Conclude that the parallelograms having the same base and lying between the same parallels are equal in area				
Expected skill development: 1) Observational skill while identifying parallelogram and triangles on the same base between same parallel 2) Procedural thinking 3) Communicating using mathematical terminology relating to geometry 4) Representation skill while drawing the figure as per the requirement of the question 5) Developing connections between different properties of Parallelogram and Triangles				

FLOW OF LESSON WITH RESPECT TO TIME (Introduction/ warm-up, Content, Think Line, Closure)

<u>Pedagogy</u>	<u>Content</u>
<u>(10 mins) Warm Up</u> <u>(Individual work) + Black Board</u> Prove through an activity that area of parallelogram on the same base and between same parallels have the same area.	
<u>(20 mins) Demonstration by Facilitator on Board</u> Learners will be asked to perform the activity as instructed by the facilitator.	Activity: Take a graph sheet and draw two parallelograms ABCD and PQCD on it. These two parallelograms are on the same base DC and between the same parallels PB and DC.

Thinkline What do you observe? Are the areas of the two parallelograms different or equal?	Learners will recall the method of finding the areas of these two parallelograms by counting the squares Learners conclude that conclude that parallelograms on the same base and between the same parallels are equal in area.
<u>(5 mins) In class Exercise: Closure</u> Facilitator will demonstrate on board by explaining through the following figure: 	Prove that the two parallelograms are equal in area geometrically using geometrical theorems and axioms. 

Proposed Questions (must include the questions asked in the classroom <u>and</u> the ones given as class-work in the notebook) Prove that parallelograms on the same base and between the same parallels are equal in area.	
Evaluation/ Assessment: Peer discussion will be done. Teacher will assess the children randomly and also through student teacher interaction.	
Learners on the way How would you calculate the area by counting square method?	Advanced Learner Prove that parallelogram on the same base and between the same parallels are equal in area.
Materials needed/ Resources:- Chalk , duster, NCERT Text book	
Common Misconceptions: Congruent figures are equal in area is true then figures with equal area are congruent is also true	Addressing the misconceptions: By taking an example of Area of rectangle = $14 \times 11 = 154$ segments Area of circle = $3.14 \times 7 \times 7 = 154$ segments Area are equal but rectangle and circle are not Congruent

Home Assignments: Attempt Q.1 (I to VI) of Ex – 9.1 of NCERT Text Book Class 9