

WHAT TEACHER DOES	WHAT STUDENT DOES
ENGAGE: • <i>Good morning students</i> • <i>you know students maths is all around us. Which branch of mathematics is easily observed around us?</i> • <i>Nice. Where all do you see geometry and in what form?</i> • <i>Good. Teacher shows a picture essay in ppt</i> • <i>There are two categories of figures observed in geometry . Which are they?</i> • <i>Correct answer</i> • <i>give me few examples of plane and solid figures</i> • <i>Teacher shows a picture with both types of figures in ppt(tuxpaint and downloaded OER image)</i> • <i>We not only see maths around us but also use maths in every instance of our life. Where all do you make use of maths?</i> • <i>Now let us know a situation where a boy named Rohan (teacher shows a pic) has a birthday party to attend(shows picture). He has packed the gift to be given in a carton and now wants to wrap it with wrapping paper(pic). But he gets a question here(pic)</i> • <i>Do you know what question he might have got?</i> • <i>Do you know right now“How much gift wrapping paper is required to wrap the box?”</i>	• <i>Good morning maam</i> • <i>Geometry</i> • <i>Buildings,mountains,etc</i> • <i>in form of shapes</i> • <i>plane figures and solid figures</i> • <i>square,triangle-plane figure</i> • <i>cylinder,cuboid-solid figure</i> • <i>pupil lists out situations where they use mathematics</i> • <i>Pupil may give correct answer or partially correct answer</i> • <i>no maam</i>
DECLARATION OF LEARNING TASK: <i>Let us find out the answer to this question “How much gift wrapping paper is required to wrap the box?”(ppt) in today’s class</i>	
EXPLORE:- • <i>Now let us get this answer together in group(teacher guides in forming groups and gives learning activity’s instructions)</i> • <i>teacher shows a picture and asks the question “ In what shape is the carton?</i> • <i>Good know to know the quantity of paper required,about what do we need to know ?</i> • <i>Let us learn cube structure through a video</i>	• <i>Cubical</i> • <i>cube</i>

• <i>teacher displays questions on the ppt related to the video- 1. how many faces the cube has? 2.in which shape is each face?</i> • <i>now to know how to cover the box, what should we do?</i> • <i>Ok now you will be calculating the area of three different cubes in groups.</i> • <i>Teacher shows the length of one side of the cube and records the answers found by the students in groups after discussion in a table created in geogebra .</i> EXPRESS: <i>the pupil generalises the formula of total surface area of cube through the activity conducted (the pupil are showed with opened structure of cube to help them formulate the surface area)</i> EXPAND: • <i>if the box Rohan has is of side 10cm .What is its total surface area(the question with picture is displayed on the ppt) Now tell me “How much gift wrapping paper is required to wrap the box?”(ppt)</i> • <i>very good</i> EVALUATE: • <i>Teacher displays a picture and asks a question “A person wants to paint the box outside except the top area of the box.” What should he find out that will help him calculate the paint required?</i>	• <i>6 faces</i> • <i>square</i> • <i>area of the cube</i> • <i>pupils discusses in the group</i> • <i>the pupil works in groups and finds out the surface area of the cube by using area of one square *6</i> • <i>They generalise that total surface area of a cube =$6a^2$</i> • <i>600 sq cm</i> • <i>600 sq cm sheet of paper</i> • <i>the person should calculate lateral surface area and bottom area of the cube.</i>
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