



Generic Learning / Lesson Plan Template

Year Level/s: 10MAT	Date: 25-5-21	Learning Areas: Measurem	ent & Geometry	Duration: 70 mins			
Curriculum descriptor / Outcomes / Learning or Skills: What is the broad educational goal in terms of the curriculum, syllabus or framework?							
Solve problems involving surfa	ace area and volume for a range	e of prisms, <u>cylinders</u> and comp	osite solids (ACMMG242)				
Lesson Objective: What spec	cific part of this broad goal does	this lesson aim to develop? A	good objective must indicate "Gi	iven what, Do what, How well?"			
LI – Determine area of compo	site shapes						
Know and Do: By the end of the lesson, what knowledge (content and understanding) and skills (processes) do students need to develop?							
Students need to know Area of rectangles, triangles, parallelograms, trapeziums, circles and sectors to calculate the area of composite shapes.			Students need to be able to Calculate the areas of various composite shapes.				
Evaluation / Monitoring and Assessment:							
Prior Knowledge: (How will I find out what the s remember?): Check student engagement an questions.		Formative Assessment: (How will I monitor student understanding along the way?): Observe students working on exercise questions. Ask questions to check for understanding.		Summative Assessment: (How will I provide concrete et	vidence of student learning?):		
Resources needed: Composite shapes worksheet.				Safety Concerns: nil			

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Learning Steps and Teaching Strategies	What to say	Organisation / Resources	Individualised learning
Introduction – key learnings and how they will be achieved (consider	strategies, relevance, individual / group wor	rk, clarify student understandings of task, s	tudent voice, student choice etc.)
Time Allocation: First step – practise drawing conversion diagram. Warm up questions (2 conversion questions, one trapezium, one parallelogram, one sector) Mark roll. Write answer and working out for warm up question.	What key messages will I convey?	How will I organise learning activities and utilise resources? Get students started on warm up question while I mark roll.	How can I make adjustments to meet individual student needs? Show working out for warm up question and explain my thinking a I work through problem.
Lesson Body – step by step outline of learning experience sequence etc.)	e (consider HOTS tasks, monitoring und	erstandings, provision and use of resour	ces, general student responsibilities
Time Allocation: Write LI on board: Finding area of composite shapes What does composite mean?	What questions will I ask? Tell me how you worked this out?	How will I handle the transitions between activities? Talk to students and prep for next	How will I know if students are achieving the learning objectives? Observing students as they work
(made up of different parts – i.e. made up of different shapes) I do/We do: Outline features of each composite shape and a		activity while cleaning board, writing up questions.	through questions.
worked example. You do: Worksheet – Ex5_09, Q14 (a-f). Give students a chance to get started, then do working out on board.	Walk around room, checking students as they work on problems. If a few people have the same question do example on board	Collaborative activity - and improve engageme this lesson, I chose to	nt. While teaching bring this activity
Last 10-15mins: If students have finished worksheet, hand out blank paper: students to design a composite shape with measurements, for another student to solve. Design could be for a building, artwork, bike obstacle course, playing field (paint), golf course.	question de compre on pour	forward, spending more see students becoming previous activity.	
Conclusion - reviewing learning / summarising / articulating where	e to next (<i>Strategies to capture learning</i>	that occurred and move thinking forwar	d.)
Time Allocation:	How will I help students to synthesise learnings?	What plans are in place for those who finish early?	What about those who need more time?
Collect calculators, student to clean board.	Work through <u>Q's</u> on board if students are having difficulties.	Design a building/artwork/bike ramp using composite shapes. Calculate	Write working out for questions on board.
Link back to LI -Area of composite shapes. Link to next lesson – Surface Area of prisms. Thank class, say goodbye.		the total area.	