SECONDARY LESSON PLAN

YEAR LEVEL & SUBJECT: Year 11	**DATE:**
NO. OF STUDENTS:	**LESSON DURATION:** 45mins

TOPIC/FOCUS: Introduction to Planometric Drawing

VCAA STUDY DESIGN: VCD - Unit 2: Area of study 1: Technical drawing in context

GOALS AND OBJECTIVES:
On completion of this unit the student should be able to create presentation drawings that incorporate relevant technical drawing conventions and effectively communicate information and ideas for a selected design field.

Key Knowledge/Skills:
- the conventions of presentation drawings associated with a selected field
- three-dimensional drawing methods such as… planometric
- apply drawing methods that are suitable for presentation drawings and the selected field
- use manual methods to create presentation drawings
- select and apply three-dimensional methods to represent form, proportions and scale

SUMMARY OF RESOURCES REQUIRED:
- Planometric student examples
- Planometric activity worksheet
- Tracing paper
- Pencils
- Masking tape
- Lightbox
- Photocopier
- Scissors
- Planometric ruler
- Project handout
- Floor plan sample
- Glue
- Paper
- Whiteboard

LESSON PROCEDURE					
TIMING	**RESOURCES**	**STEPS OF THE LESSON** (key activities and key questions)	**EXPECTED STUDENT REACTIONS OR RESPONSES**	**TEACHER RESPONSES TO STUDENTS** (including consideration of the need to adapt, reteach or extend)	**GOALS & METHODS OF EVALUATION** (including specific informal and/ or formal assessment)
10.45 (5mins)	- Planometric student examples	**Opening** - Mark the role. - Introduce today's topic of Planometric drawings (show examples) - Encourage students to gather around a desk whilst I give a demonstration.	Listen attentively. Get out their completed floor plans ready for activity.	Remind students they only need one room for today's activity. Ask students to put everything down and come close so they aren't distracted.	- the conventions of presentation drawings associated with a selected field
10.50 (7mins)	- Planometric activity worksheet - Planometric ruler - Tracing paper - Pencil	**Lesson Development:** <u>Planometric Activity Sheet:</u> - Give a brief demonstration on how to complete worksheet: • Plan has been turned 45º • Get a piece of tracing paper and place over the drawing, tape in place. • Using a planometric ruler start with the back two walls, draw vertical lines from each corner - to the height of said object. • Then using the ruler connect the lines by drawing 45º lines between them. • Repeat process for each item of furniture, windows, doors etc.	Might lose attention. Confusion as to which lines to draw, which walls etc.	Remind students they will have to complete this task, so they need to pay attention. Explain why we only draw the back two walls - so that we can see inside the room.	- three-dimensional drawing methods such as… planometric - apply drawing methods that are suitable for presentation drawings and the selected field

10.57 (7mins) **11.05** (5mins) **11.10** (15mins)	- Planometric ruler - Pencil - Floor plan sample - Photocopier - Scissors - Glue - Light box - Paper - Planometric activity worksheet	<u>Personal planometric drawings</u> - Break down and demonstrate each step of creating their own planometric drawings: • Choose a favourite room from their floor plans. • Photocopy and enlarge that room. • Cut out the room • Using the planometric ruler, draw a horizontal base line and then two 45º lines out to the left and right of a centre point. • Take their cutout of their chosen room and turn so that one wall at least aligns with the 45º lines. • Glue down in place and then using a light box, trace the room floor plan onto a fresh piece of paper. • As you did on the worksheet, draw vertical lines up from each corner, then connect with 45º lines. - After demonstrations, hand out worksheets and give students 5 minutes to practice on worksheet before starting their own drawings. - Get students to move onto their own personal planometric drawings.	Students might try and choose easiest room. Students might be unsure of what height to take their walls/ furniture items to. Students with rooms that aren't square might have trouble aligning walls to 45º lines. Students may have reoccuring similarmistakes/questions.	Need to encourage students to choose an interesting room, with furniture, windows etc. Remind students to keep objects roughly to scale/in proportion to the walls. Inform them they only need to align one wall with these lines. Get everyones attention (pencils down) and clarify any important points.	- three-dimensional drawing methods such as… planometric - apply drawing methods that are suitable for presentation drawings and the selected field - use manual methods to create presentation drawings - select and apply three-dimensional methods to represent form, proportions and scale - Roam around the room and assess how students are working/understanding the task
11.25 (5 mins) **11.30**		**Closure** Get students to pack up all their materials. Inform students that they will be continuing their drawings next lesson, but encourage them to take them home and continue working on them before the next class.		Ensure everyone is quiet and paying attention before talking to them.	