



THEME										ENGINEERING GRAPHICS AND DESIGN									
SCHOOL:										DATE			Day	Month	Year				
CYCLE / WEEK		1	2	3	4	5	6	7	8	9	10	TERM				1	2	3	4
THEME		PICTORIAL																	
INTEGRATION WITH OTHER SUBJECTS																			
Business Studies	Manufacturing	✓	Human Science	Mathematics															
Commerce Studies	Engineering	✓	Social Science	Computers															
Management Studies	Technology	✓	Arts and Culture	Physical Sciences															
Service Studies	Languages		Agricultural Sciences	Life Sciences															
CONTEXT		CRITICAL OUTCOMES (CO's)				DEVELOPMENTAL OUTCOMES (DO's)													
Civil	✓	1. Problem solving				1. Learn more effectively													
Mechanical	✓	2. Teamwork				2. Responsible citizens													
Electrical		3. Self-management				3. Culturally & aesthetically sensitive													
		4. Research and critical analysis				4. Explore education & career opportunities													
		5. Effective communication				5. Entrepreneurship													
		6. Science and technology																	
		7. The world as a set of related systems																	
		Skills	Knowledge	Values including Attitudes															
NCS PRINCIPLES		ASSESSMENT																	
		LTSM (resources used in teaching & learning)			TEACHING & LEARNING STRATEGIES (Learning Activities)				ASSESSMENT ACTIVITIES (Assessment Activities / Tasks) TOOLS METHODS										
Social Transformation		Observation	✓	Show & Demonstrate	✓	Rating Scales		Self Assessment											
Outcomes-based Education		Environment		Explain the Technology	✓	Observation Sheets		Peer Assessment											
Higher knowledge & Skill	✓	Models	✓	Explain the Terminology	✓	Checklists		Group Assessment											
Integration & Applied competence		CAD – Software	✓	Producing free hand drawings		Task Lists	✓	Teacher Assessm. ✓											
Progression		Audio Visual	✓	Self made Models		Memo/Mask	✓	External Assessm.											
Articulation & Portability		Worksheets	✓	Design		Rubrics / Grids	✓												
Human rights, Inclusivity, Environmental & Social justice		Drawing Instruments	✓	Class discussion		EVIDENCE COLLECTION													
Valuing Indigenous Knowledge Systems		Transparencies / OHP	✓	Group discussion		Observation													
		Chalkboard / Posters	✓	Group work		Test - based	✓												
Credibility, Quality & Efficiency		Other (specify)		Individual work	✓	Task based	✓												
CONTENT: LEARNING OUTCOMES(LO's) AND ASSESSMENT STANDARDS(AS's)																			
LO1		LO2			LO3				LO4										
11.1.1 Relationship environment		11.2.1 Identify Problems		11.3.1 Code of Practice		11.4.1 Interpretation Drawing													
11.1.2 Human Right Issues		11.2.1 Research		11.3.2 Projects multi/pict.		11.4.2 Drawing Principles													
11.1.3 HIV/AIDS		11.2.3 Final Solution		11.3.3 CAD Drawings		11.4.3 Multi & single view													
11.1.4 Communication		11.2.4 Present solution		11.3.4 Basic design		11.4.4 Pictorial Drawings													
11.1.5 Entrepreneurship		11.2.5 Evaluation		11.3.5 Drawing Techniques		11.4.5 Sectioning multiview													
11.1.6 Electronic impact on Comm.				11.3.6 Sectional Views		11.4.6 Design Process													
				11.3.7 Graphic Comm.		11.4.7 CAD													
				11.3.8 Loci		11.4.8 Loci													

Lesson / Period Breakdown per Topic

Prior Knowledge: Grade 10 EGD

Teacher Activities	Learner Activities	Evidence	Time	Date Comp.
Topic: Isometric	Draw simple to complex ISOMETRIC drawings with or without hidden detail. Including auxiliary views and circles . (Incl. sections)	Presentation Drawing/s	14	
Topic: One Point Perspective	Produce advanced 1-POINT PERSPECTIVE drawings relative to civil and mechanical (eg. Castings, dwellings and machine components)	Presentation Drawing/s		
Topic: Two Point Perspective	Produce advanced 2-POINT PERSPECTIVE drawings relative to civil and mechanical (eg. Castings, dwellings and machine components)	Presentation Drawing/s		

<u>Intervention Strategy</u>		<u>DATE TOPIC / THEME COMPLETED</u>
<u>Enrichment:</u>		
<u>Remedial:</u>		

02

QUESTION 4: PERSPECTIVE

Given:

Two views of a house and the necessary information needed to draw a two-point perspective drawing.

- PP - Picture Plane
- HL - Horizon Line
- GL - Ground Line
- SP - Station Point

Instructions:

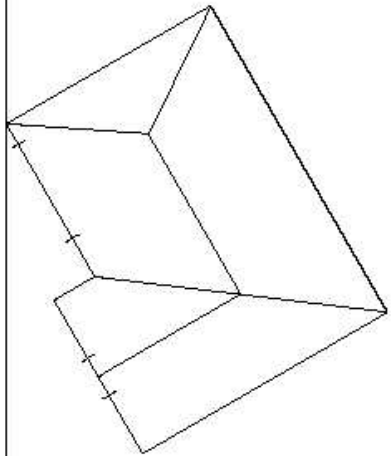
- Locate and label the vanishing points.
- Complete the perspective drawing.
- Show ALL necessary construction.

Note:

NO hidden detail is required.

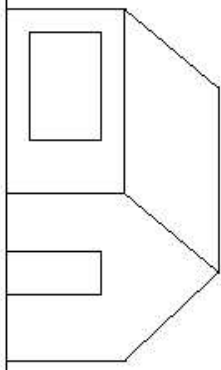
[20]

PP _____



HL _____

GL _____



ASSESSMENT CRITERIA

VPs	=	4
CONSTRUCTION	=	2
PERSPECTIVE	=	17
TOTAL		23

+

SP

EXAMINATION NUMBER	
EXAMINATION NUMBER	
	B

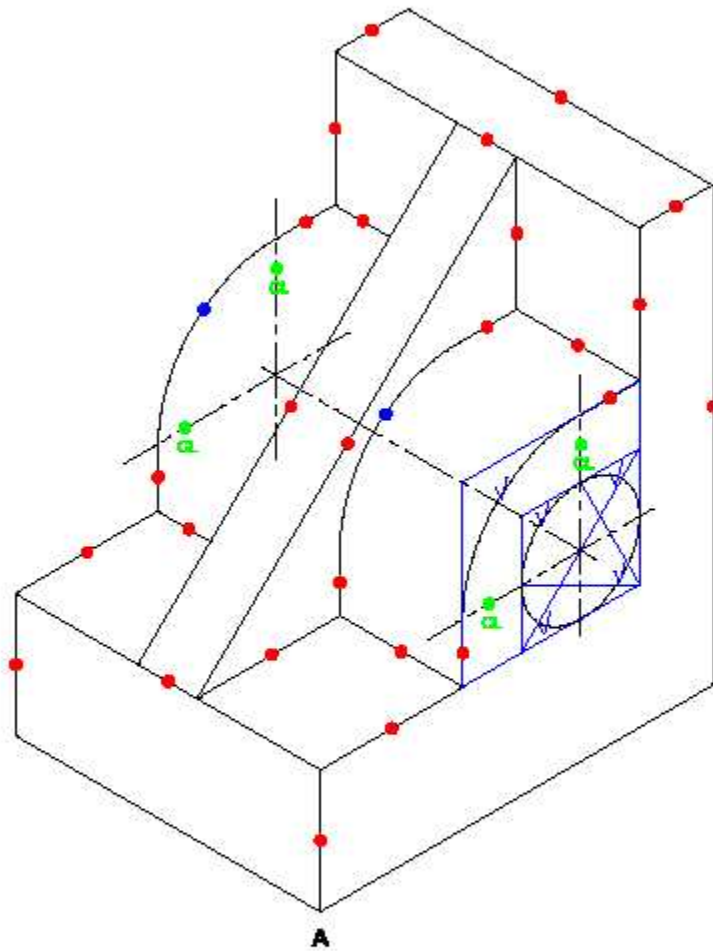
ASSESSMENT CRITERIA

VPs	= 4
CONSTRUCTION	= 2
PERSPECTIVE	= 17
TOTAL	23

GP

QUESTION 4 PAPER 1
GRADE 11 EXEMPLAR 2007
MEMORANDUM

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ASSESSMENT CRITERIA

LINES 25 x 1/4	= 13
CENTRE LINE	= 1
CIRCLES	= 6
TOTAL	= 20

QUESTION 3 PAPER 2
GRADE 11 EXEMPLAR 2007
MEMORANDUM

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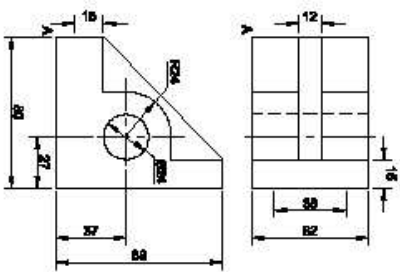
QUESTION 3: ISOMETRIC DRAWING

Given:
The front view and top view of a rod guide bracket.

Instructions:

- Convert the orthographic views of the rod guide bracket into an isometric drawing.
- Make corner A the lowest point of the drawing.
- NO hidden detail is required.
- Show ALL necessary construction.

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ASSESSMENT CRITERIA

LINES	= 13
CENTRE LINE	= 1
CIRCLES	= 0
TOTAL	= 20

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EXAMINATION NUMBER	
EXAMINATION NUMBER	4

Practical Exam Paper