ASSESSMENT PRE-MODERATION
MECHANICAL TECHNOLOGY GRADE 10 SPECIALIZATION

GAUTENG PROVINCE
EDUCATION
REPUBLIC OF SOUTH AFRICA

ADMINISTRATIVE DETAILS:

SCHOOL:		DISTRICT:	D	ASSESSMENT TYPE:	T1 / MY / T3 / Fin Exam
ASSESSMENT DATE	/ /			SECURE STORAGE DATE	/ /
GRADE	10			Number of Learners / Scripts	

ASSESSMENT CHECK LIST:

##	DETAIL CLEARLY INDICATED and CORRECT	YES	NO	COMMENTS
1	School Cover Page with Subject Name			
2	Date of Assessment and Time / Duration of Paper			
3	Examiners Name AND Moderators Name			
4	Instructions to Learners			
5	Total Mark for Complete Paper - Added Correctly and Displayed			
6	Marks per Section - Total Added Correctly and Displayed			
7	Marks per Sub-Question - Displayed			
8	Question Numbering, Diagram / Table Referencing & Page Numbers			
9	Questions Aligned with Curriculum (Table Below) & Work Schedule			
10	Cognitive Levels & Complexity Weighting Applied (Blooms completed)			
11	Academic Language Style and Spelling			
12	Blend: Multiple Choice, Short, Long Questions, Labelling			
13	Includes Graphs, Diagrams, Sketches, Cartoons etc			
14	First Draft Approved			
15	Clear Type Font Appropriate for Mass Reproduction - no fading			
16	Memorandum Covers All Permutations / Options - User Friendly			
17	Tick Marks on Memorandum Reflects Total Mark Allocation per Question			
18	Question Paper Numbering Aligned with Memorandum Numbering			
19	Digital Format for Effective Storage, Modification and Reuse			
20	Scanned Images - Avoiding Manual Cut & Paste			
21	Un-altered Grade 12 Formula Sheet attached for All Grades			
22	Final Version with ALL Images and Attachments Included - Approved			

Responsible Levels	Initials and Surnames	Dates	Signatures
EXAMINER One		/ /	
EXAMINER Two		/ /	
MODERATOR		/ /	
PRINT APPROVED (Proof Read)		/ /	

When setting/moderating assessments, a *Cognitive Level* spread be must displayed (Blooms Taxonomy - *Revised GDE Poster*), enabling a **standard** that will *not disadvantage Learners* when faced with external assessments. Each question must fall into a low, middle or high ranking (*Mechanical Technology CAPS pg. 35*) and conform to a *Weight Limit* (**Column W**), for that *Cognitive Level*. Use key words in different levels as a guide to check question structure - note words alone DO NOT determine level but the question as a whole! Determine *assessments complexity* by placing *Question Number* (**Q**) and its *Mark Value* (**M**) in the appropriate column for the *question and corresponding level* row. Finally **add** up the marks for each question, inserting the *Total* in the last column (**T**) to confirm that the *cognitive weighting* is correct for the assessment as a *whole*.

Cognitive Level and Key Words	*W*	Q 1	M1	Q 2	M2	Q 3	M3	Q 4	M4	Q 5	M5	Q 6	M6	Q 7	M7	Q 8	M8	Q9	M9	T
CREATING (Higher Order Thinking) Generating new ideas, products or ways to viewing things *Key Words in Question:* designs, constructs, plans, produces, invents, assembles, creates, develops, formulates, writes.		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
EVALUATING (Higher Order Thinking) Justifying a decision or course of action *Key Words in Question:* checks, hypothesises, critiques, experiments, judges, appraises, compares, concludes, defends, discriminates, evaluates, justifies, relates, supports.	10/50 20% 30/150 40/200	1.		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
ANALYSING (Higher Order Thinking) Breaks info. into parts to explore understanding & relationships *Key Words in Question:* organises, deconstructs, interrogates, findings, analyses, breaks down, contrasts, diagrams, differentiates, distinguishes, illustrates, outlines, relates, separates.		X		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
		X		2.		3.		4.		5.		6.		7.		8.		9.		
APPLYING (Middle Order Thinking) Using information in another familiar situation *Key Words in Question:* implements, carries out, executes, applies, changes, computes, builds, demonstrates, calculates, uses, discovers, manipulates, modifies, operates, predicts, prepares, produces, shows, solves.	25/50 50% 75/150 100/200	1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
UNDERSTANDING (Middle Order Thinking) Explaining ideas or concepts - Stating problem in own words. *Key Words in Question:* interprets, summarises, paraphrases, classifies, explains, comprehends, converts, estimates, extends, generalizes, gives, examples, infers, predicts, re-writes, translates.		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
REMEMBERING (Lower Order Thinking) Recalling information *Key Words in Question:* defines, describes, identifies, knows, labels, lists, matches, names, outlines, recalls, retrieves, recognizes, reproduces, selects, states.	15/50 30% 45/150 60/200	1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		
		1.		2.		3.		4.		5.		6.		7.		8.		9.		

QUESTION PAPER – QUESTION STRUCTURE

FITTING and MACHINING

Q. NO	Term 1 Formal Assignment CONTENT	Tot	Time	Q. NO	Mid-Year Examination CONTENT	Tot	Time	Q. NO	Term 3 Formal Test CONTENT	Tot	Time	Q. NO	Final Examination CONTENT	Tot	Time
1	Multiple Choice	10	12	1	Multiple Choice	14	14	1	Multiple Choice	10	12		**Section A - Generic**		
	Section A - Generic				**Section A - Generic**				**Section A - Generic**			1	Multiple Choice	14	10
2	Safety	10	12	2	Safety	14	14	2	Joining Methods	16	18	2	Safety	10	9
3	Tools	10	12	3	Tools	23	23		**Section B - Specific**			3	Tools	12	10
4	Materials	10	12	4	Materials	18	18	3	Systems and Control	24	30	4	Joining Methods	24	20
	Section B - Specific			5	Forces	36	36		**TOTAL**	**50**	**60**	5	Forces	27	25
5	Terminology (Measure)	10	12		**Section B - Specific**							6	Maintenance	18	16
	TOTAL	**50**	**60**	6	Terminology	45	45					7	Materials	16	15
					TOTAL	**150**	**150**						**Section B - Specific**		
												8	Multiple Choice	6	8
												9	Terminology	43	40
												10	Systems and Control	30	27
													TOTAL	**200**	**180**

AUTOMOTIVE

Q. NO	Term 1 Formal Assignment CONTENT	Tot	Time	Q. NO	Mid-Year Examination CONTENT	Tot	Time	Q. NO	Term 3 Formal Test CONTENT	Tot	Time	Q. NO	Final Examination CONTENT	Tot	Time
1	Multiple Choice	10	12	1	Multiple Choice	14	14	1	Multiple Choice	10	12		**Section A - Generic**		
	Section A - Generic				**Section A - Generic**				**Section B - Specific**			1	Multiple Choice	14	10
2	Safety	10	12	2	Safety	14	14	2	Terminology	16	16	2	Safety	10	9
3	Tools	10	12	3	Tools	16	16	3	Maintenance	12	16	3	Tools	16	14
4	Engines	6	8	4	Joining Methods	25	25	4	Systems and Control	12	16	4	Joining Methods	24	20
	Section B - Specific			5	Forces	25	25		**TOTAL**	**50**	**60**	5	Forces	27	25
5	Engines	14	16	6	Maintenance	18	18					6	Maintenance	16	15
	TOTAL	**50**	**60**	7	Engines	14	14					7	Engines	12	10
					Section B - Specific								**Section B - Specific**		
				8	Engines	24	24					8	Multiple Choice	6	8
					TOTAL	**150**	**150**					9	Engines	24	23
												10	Terminology	24	21
												11	Maintenance	10	10
												12	Systems and Control	17	15
													TOTAL	**200**	**180**

WELDING & METALWORK

Term 1 Formal Assignment

Q. NO	CONTENT	Tot	Time
1	Multiple Choice	10	12
Section A - Generic			
2	Safety	10	12
3	Tools	10	12
Section B - Specific			
4	Terminology (Weld Terms & Templates)	10	12
5	Terminology (Arc- and Gas welding)	10	12
TOTAL		**50**	**60**

Mid-Year Examination

Q. NO	CONTENT	Tot	Time
1	Multiple Choice	14	14
Section A - Generic			
2	Safety	14	14
3	Tools	14	14
4	Joining Methods	18	18
5	Forces	25	25
6	Maintenance	12	12
Section B - Specific			
7	Terminology (Weld Terms & Templates)	13	13
8	Terminology (Arc- and Gas welding)	20	20
9	Terminology (Weld Symbols & Joints)	20	20
TOTAL		**150**	**150**

Term 3 Formal Test

Q. NO	CONTENT	Tot	Time
1	Multiple Choice	10	12
Specific			
2	Maintenance	12	14
3	Terminology (Developments)	28	34
TOTAL		**50**	**60**

Final Examination

Q. NO	CONTENT	Tot	Time
Section A - Generic			
1	Multiple Choice	14	10
2	Safety	10	9
3	Tools	16	14
4	Joining Methods	24	20
5	Forces	30	28
6	Maintenance	16	15
7	Materials	15	13
Section B - Specific			
9	Multiple Choice	6	8
10	Terminology (Weld Terms & Templates)	12	9
11	Terminology (Arc- and Gas welding)	20	18
12	Terminology (Weld Symbols & Joints)	15	14
13	Terminology (Developments)	22	22
TOTAL		**200**	**180**