Graad 9 Inligting
Grade 9 Information

Hoër Tegniese Skool Witbank

#DieVoorloperskool

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Inligting aan Graad 9 leerders : 11 Augustus 2026

Information to Gr 9 Learners : 11 August 2026

SKOOLHOOF / PRINCIPAL: Mnr. J.D.P. Liddle

Hoof van Akademie / Head of Academics : Me. E. Pieters

Hoof van Leerdersake / Head of Learner Affairs: Mnr. B. Botha

Hoof van Innovasie / Head of Innovation: C. Schmidt

DEPARTEMENTSHOOFDE

HEADS OF DEPARTMENT

Afrikaans: Me. H. Snyman

Engels / English: Me. A. Verster

Fisiese Wetenskappe / Physical Science: Me. M. Paxton

Wiskunde / Mathematics: Me. M. Bezuidenhout

Toerisme / Tourism/ Geografie / Geography: Me. S Botha

Tegniese vakke / Technical subjects: Mnr. A. Botes & A. Ackron

CAT/ RAT/ Besigheidstudies / Business studies/

Rekeningkunde / Accounting/ Drama: Me. M. de Bruin

Lewensoriëntering / Life Orientation: Me. D. Jooste (Vakhoof/Subject head)

Navigating Grade 10 & Beyond:
Your NSC Success Guide

NSC Pass Requirements (Grade 12)

Diploma Studies Admission

Achieve 40% in Home Language and 40% in three other subjects (excluding Life Orientation)

Diploma	
Home Language:	40%
High-Credit Subjects:	3 x 40%
Other Subjects:	2 x 30%

Higher Cert.

Home Language:	40%
High-Credit Subjects:	2 x 40%
Other Subjects:	3 x 30%

Bachelor Degree Admission

Achieve 40% in Home Language and 50% in four other subjects (excluding Life Orientation)

Home Language:	40%	50%
High-Credit Subjects:	4 x 50%	4 x 50%
Other Subjects:	2 x 30%	2 x 30%

Diploma	High-Credit	Other
Home Language:	40%	40%
High-Credit Subjects:	3 x 40%	2 x 40%
Other Subjects:	2 x 30%	2 x 30%

THE RULE SIX

Regardless of the certificate level, students must pass at least **6 out of 7 subjects**

Strategies for Success

Master Your Timetable

Establish a daily study routine and revise classwork immediately, focusing heavily on Mathematics and Sciences

Balance and Brain Health

Pair intense study with healthy eating and physical activity to release "feel-good" hormones like serotonin

Motivation Over Pressure

Parents should support their child's unique potential rather than forcing personal goals, which can cause anxioty

NotebookLM

Verduideliking van NSS slaagvereistes
(aan die einde van Graad 12)

#1 TOELATING TOT *BACHELOR* STUDIES

•Moet ten minste 40% vir jou Huistaal behaal (verpligtend).
•Moet ten minste 50% vir vier ander vakke behalwe Lewensoriëntering, behaal.
•Moet ten minste 30% vir Taal van Onderrig en Leer (TVOL) van die tersiêre (Hoër Onderwys) instelling, behaal.
•Moet ten minste 30% vir een ander vak behaal.
•Moet ten minste 6 uit die 7 vakke slaag.

#2 TOELATING TOT *DIPLOMA* STUDIES

•Moet ten minste 40% vir jou Huistaal behaal.
•Moet ten minste 40% vir drie ander vakke behalwe Lewensoriëntering, behaal.
•Moet ten minste 30% vir Taal van Onderrig en Leer (TVOL) van die tersiêre (Hoër Onderwys) instelling, behaal.
•Moet ten minste 30% vir een ander vak behaal.
•Moet ten minste 6 uit die 7 vakke slaag.
•Moet ten minste 6 uit die 7 vakke slaag.

#3 *HOëR SERTIFIKAAT*

•Moet ten minste 40% vir jou Huistaal behaal.
•Moet ten minste 30% vir Taal van Onderrig en Leer (TVOL) van die tersiêre (Hoër Onderwys) instelling, behaal.
•Moet ten minste 40% vir twee ander vakke behaal.
•Moet ten minste 30% vir drie ander vakke behaal.
•Moet ten minste 6 uit die 7 vakke slaag.

Explaining the NSC pass requirements
(at the end of Grade 12)

#1 ADMISSION TO *BACHELOR* STUDIES

- Must obtain at least 40% for your Home Language (compulsory).
- Must obtain at least 50% for four other subjects excluding Life Orientation.
- Must obtain at least 30% for Language or Learning and Teaching (LOLT) of the tertiary (Higher Education) institution.
- Must obtain at least 30% for one other subject.
- Must pass at least 6 out of 7 subjects.

#2 ADMISSION TO *DIPLOMA* STUDIES

- Must obtain at least 40% for your Home Language.
- Must obtain at least 40% for three other subjects excluding Life Orientation.
- Must obtain at least 30% for Language or Learning and Teaching (LOLT) of the tertiary (Higher Education) institution.
- Must obtain at least 30% for one other subject.
- Must pass at least 6 out of 7 subjects.

#3 *HIGHER CERTIFICATE*

- Must obtain at least 40% for your Home Language.
- Must obtain at least 30% for Language or Learning and Teaching (LOLT) of the tertiary (Higher Education) institution.
- Must obtain at least 40% for two other subjects.
- Must obtain at least 30% for three other subjects.
- Must pass at least 6 out of 7 subjects.

WENKE OM GR.10 2026 TE HANTEER

·Daaglikse studierooster is 'n vereiste!
·Hersien klaswerk tuis, veral Wiskunde en Wetenskap vir vaslegging.
·Maak tyd vir leer, maar ook vir ontspanning.
·Eet gesond – jou brein het dit nodig.
·Beoefen 'n sport of doen fisiese oefening sodat goedvoelhormone afgeskei kan word.

OUERS

Daar is 'n groot verskil tussen druk en motivering.
Glo in jou kind en dat hy/sy in staat is om hul volle potensiaal te kan bereik.
U moet u kind aanvaar en ondersteun, moenie dat gevoelens van "nie goed genoeg wees" ontstaan, want dit kan tot angs en spanning lei.
Help u kind om sy/haar menswees, persoonlikheid en eie doelwitte te bereik.
U moet asseblief nie u eie persoonlike wense en doelwitte op die kinders afdwing nie.

ALGEMENE INLIGTING

Gr9's sit met 'n warboel gedagtes en emosies. Hulle is vasgevang tussen akademie en sport, 'n groot nuwe begin wat voorlê, loopbane wat uitgelê word en dan ook die belangrikste: om sosiaal in te pas en aanvaar te word. Wil u hê u kind moet presteer sodat u kan goed lyk? Ondersteun u kind, kommunikeer met u kind? Weet u wanneer moet alle projekte ingehandig wees, weet u wanneer u kind toets/eksamen skryf? Dra u ekstra warm melk, koekies vir die lang nagte aan? U moet u kind laat verstaan dat sy BESTE goed genoeg is. Moedig 'n gesonde leerskedule en gesonde leefstyl aan, staan agter jou kind. Dit maak nie saak watter punt hy/sy kry nie.

GR.10 GAAN OOR TYDSBESTUUR, STRESHANTERING EN VOORKOM UITBRANDING.

"Dit gaan hectic wees. Jy het al hectic gedoen en dit oorleef – jy gaan weer".

*** ONTHOU WAT IN GRAAD 10 GEBEUR IS NIE DIE ALFA EN OMEGA NIE.**
(BEGIN EN EINDE)

HOW TO: HANDLE GR 10 2026

·Have a daily study timetable.
·Revise work completed in class, especially Mathematics and Sciences.
·Have a balance – plan for study but also plan to socialize.
·Eat healthy! Your brain needs it.
·Participate in a form of sport or physical activity to release serotonin (Feel good hormone).

PARENTS

Please keep in mind that there is a huge difference between pressure and motivation.
Believe in your child and that he/she is able to reach her/his full potential.
Accept and motivate your child – do not allow feelings of "not good enough " to fester – it will lead to anxiety and tension.
Assist your child to reach his/her full potential, goals and to develop their personality.
Be mindful not to force your own hopes and dreams on them.

GENERAL INFO

Gr9s are overwhelmed with thoughts and emotions. They are caught up between academics and sport, plans and career choices and then the pressure of being socially accepted.
Do you want your child to excel? Support and communicate with your child.
Are you aware of the deadlines for projects and tasks?
Do you know when he/she is writing tests or exams?
When they are up late at night, studying, do you spoil them with hot chocolate and biscuits? You have to acknowledge your child and help them to believe that their BEST is good enough. Encourage a healthy study schedule and lifestyle – be there for him/her. Regardless of the mark they obtain.

GR 10 IS ALL ABOUT TIME MANAGEMENT, HANDLING STRESS AND NOT TO BE BURNT OUT.

"It is going to be hectic. You have done and survived hectic before – you will do it again."

REMEMBER: WHAT HAPPENS IN GRADE 10 IS NOT THE ALPHA AND OMEGA (THE BEGINNING AND THE END)

DEPARTEMENTSHOOF / DEPARTMENT HEAD:
ME. E. BOTHA

AFRIKAANS

AFRIKAANS HUISTAAL

TAAL: Alle Taalaspekte word verduidelik en ingeoefen. GR. 9 TAAL is baie belangrik aangesien dit die laaste jaar is waar nuwe aspekte verduidelik en ingeoefen word ter voorbereiding vir Gr 10-12.

PROSA: Talle kortverhale, volksverhale en dramas word behandel om leerders voor te berei om die dramas en romans van Gr 10-12. Dit is baie belangrik dat die leerders die inhoud van elke stuk moet ken.

POëSIE: Ongeveer twee tot drie gedigte word per kwartaal behandel. Leerders moet seker maak hulle verstaan die gedigte.

Leerlinge handel 10 Assesseringstake af:

Kwartaal 1: Taak 1 – 3
Kwartaal 2: Taak 4 – 5
Kwartaal 3: Taak 6 – 8
Kwartaal 4: Taak 9 – 10

TAAL:	Vraestel 1 (70)
LETTERKUNDE:	Vraestel 2 (30)
STELWERK:	Deel van die assesseringstake in die kwartaal
Taak 6 & 7:	Bestaan uit 'n kreatiewe letterkunde skryfprojek.

GR. 9 HUISTAAL SE SLAAGVEREISTE IS 50%

AFRIKAANS Eerste Addisionele Taal

TAAL: Werk uit Piekfyn Afrikaans
POËSIE: 6 – 7 gedigte word afgehandel
PROSA: 6 – 7 kortverhale/volksverhale word afgehandel

Daar is 10 assesseringstake vir die jaar.
KWARTAAL 1: Kontrole toets
2: Kontrole toets
3: Letterkunde toets
4: Kontrole toets

GR. 9 EERSTE ADDISIONELE TAAL SE SLAAGVEREISTE IS 40%.

*Maak asseblief seker dat u kind gereeld skool toe kom. Indien u kind afwesig was, is dit hulle plig om uit te vind watter werk hulle gemis het en moet hulle dit self inhaal.
*Maak seker dat al u kind se assesseringstake betyds en volledig ingehandig word aangesien dit op die rapport sal tel.
*Leerlinge moet sover moontlik elke dag in die klas wees.
*Alle take moet betyds ingehandig word aangesien dit tel.

DEPARTEMENTSHOOF / DEPARTMENT HEAD:
MRS. A. VERSTER

ENGLISH

ENGLISH HOME LANGUAGE

What to expect in Gr 10-12

· All portfolio tasks are compulsory. It will be moderated by the Department of Education in September/October.
· Continuous moderation will take place throughout the year at circuit level.
· **All orals are compulsory**.
- This forms a total on a separate marksheet = Total 50. (Gr 12)
- It is part of the final examination.
· All notes should be on poem to make the study thereof easier.
- A total of 12 poems to be completed in Gr 12.
· Homework forms part of examination preparation.
- All tasks to be completed before due dates.
· YouTube, Thutong = these sites offer assistance in prescribed work for selfstudy.
· Google Classroom codes available in class – please join for extra assistance and notes.
· There is also a Whatsapp group for each grade for communication.
· Be in class, be prepared. Have a work ethic.

SBA – School Based Assessment
- Diligence and enthusiasm will be the order of the day!
- Work will reflect in portfolio file.

ENGLISH FIRST ADDITIONAL LANGUAGE

There are 10 formal tasks to make up the year mark, including 2 full scale exams. Each task should be considered as a formal test.

PAPER 4: ORAL EXAMS

Task 5 and 6 (speech and reading) are completed in class.

LITERATURE

Poetry: Notes on poems MUST BE taken down in class.
Drama: The drama will be read and discussed in class but must be read at least TWICE again before exams in Gr 12.

Extra reading from newspapers, magazines and internet articles is highly recommended

DEPARTEMENTSHOOF:
ME. M. PAXTON

WETENSKAPPE

FISIESE WETENSKAPPE	TEGNIESE WETENSKAPPE	LEWENSWETENSKAPPE
Pasaangeër	**Pasaangeër**	**Pasaangeër**
Gr 12 - Me. M. Paxton	Gr 12 - Mnr. C. Schmidt	Gr 12 - Me. G. Wessels
Gr 11 - Me. M. Paxton	Gr 11 - Me. B. Hefer	Gr 11 - Me. D. Jooste
Gr 10 - Me. B. Hefer	Gr 10 - Me. M. Paxton	Gr 10 - Me. G. Wessels

FISIESE WETENSKAPPE

Die leerders moet asseblief let op die volgende punte:

- Die vak bestaan uit 2 gedeeltes met die volgende afdelings:

FISIKA	CHEMIE
Meganika: Beweging Bewegingsgrafieke Energie	**Materie en Materiale**; Fases van materie Formules en name van stowwe Atoom se bou Periodieke tabel Kinetiese molekulêre teorie Chemiese bindings Balansering van chemiese reaksies
Elektrisiteit en magnetisme: Stroomelektrisiteit Elektrostatika Magnetisme	**Chemiese veranderinge**: Ione in waterige oplossings Elektroliete en geleidingsvermoë Soorte chemiese reaksies
Golwe, klank en lig: Transversale golwe Longitudinale golwe Klank Elektromagnetiese straling	**Stoichiometriese Berekeninge:** Bereken Atoommassa Persentasiesamestelling Empiriese formule

- Vir hierdie vak moet 'n leerder 'n goeie wiskundige aanleg besit. Daar is heelwat berekeninge in fisika sowel as chemie met BAIE formules. Hier is 'n formuleblad met van die formules wat gebruik gaan word.

MOTION/*BEWEGING*

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$	$\Delta x = \left(\frac{v_f + v_i}{2}\right)\Delta t$

WORK, ENERGY AND POWER/*ARBEID, ENERGIE EN DRYWING*

$U = mgh$ or/*of* $E_P = mgh$	$K = \frac{1}{2}mv^2$ or/*of* $E_k = \frac{1}{2}mv^2$
$E_M = E_k + E_p$. or/*of* $E_M = K + U$	

WAVES, SOUND AND LIGHT/*GOLWE, KLANK EN LIG*

$v = f\lambda$	$T = \frac{1}{f}$
$E = hf$ or/*of* $E = h\frac{c}{\lambda}$	

ELECTROSTATICS/*ELEKTROSTATIKA*

$n = \frac{Q}{e}$	$Q = \frac{Q_1 + Q_2}{2}$

ELECTRIC CIRCUITS/*ELEKTRIESE STROOMBANE*

$Q = I\Delta t$	$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \ldots$
$R_s = R_1 + R_2 + \ldots$	$V = \frac{W}{q}$

TABLE 2: FORMULAE/*TABEL 2: FORMULES*

$n = \frac{m}{M}$	$n = \frac{N}{N_A}$
$c = \frac{n}{V}$ or/*of* $c = \frac{m}{MV}$	$n = \frac{V}{V_m}$

- Huiswerk moet asseblief elke dag gedoen word om sodoende belangrike konsepte in te oefen. Huiswerk moet asb self gedoen word. Afskryf is verbode.
- Leer asseblief vir die klastoetse wat geskryf gaan word ter voorbereiding van die finale eksamen.
- Werk asseblief in die klas. Luister na die onderwyser. Belangrike inligting word elke periode deurgegee.
- Indien moontlik moet die leerder asseblief nie afwesig wees nie. Daar word baie werk in 'n periode afgehandel.

<u>Punteberekening volgens die CAPS-dokument en ATP:</u>

2026 ATP: Grade 10 – PHYSICAL SCIENCES

Programme of Assessment for grade 10					
PROGRAMME OF ASSESSMENT FOR GRADE 10					
ASSESSMENT TASKS (40 %)					END-OF-YEAR ASSESSMENT (60 %)
TERM 1		TERM 2		TERM 3		TERM 4
Type	Weighting and duration	Type	Weighting and duration	Type	Weighting and duration	Final Examination Two papers of 100 marks each **Paper 1**: Physics (100 marks) **Paper 2**: Chemistry (100 marks) Each paper having a duration of 2 hours)
Control Test 25% (1 x 75 marks) 1.5 hours		June Exam	25% (2 x 100 marks) 4 hours	Experiment	12,5% 50 marks and 2-hour duration)	
		Experiment	12,5% (50 marks 2-hour duration)	Control Test	25% (1 x 75 marks) 1.5 hours	
FINAL MARK PER TERM: 100% Control test		FINAL MARK PER TERM: 40% experiment 60% June exam		FINAL MARK PER TERM: 40% experiment 60% Control test		
FINAL MARK = 40 % (ASSESSMENT TASKS) +60 % (FINAL EXAM) = 100%						
Assessment plan and weighting of tasks in the programme of assessment for Grade 10						

Vraestel 1: Fisika – 100 (2 uur)

Vraestel 2: Chemie – 100 (2 uur)

2 Vraestelle einde November:

DEPARTMENT HEAD:
ME. M. PAXTON

SCIENCES

PHYSICAL SCIENCES	TECHNICAL SCIENCES	LIFE SCIENCES
Pacemaker	**Pacemaker**	**Pacemaker**
Gr 12 - Me. M. Paxton	Gr 12 - Mr. C. Schmidt	Gr 12 - Me. G. Wessels
Gr 11 - Me. M. Paxton	Gr 11 - Me. B. Hefer	Gr 11 - Me. D. Jooste
Gr 10 - Me. B. Hefer	Gr 10 - Me. M. Paxton	Gr 10 - Me. G. Wessels

PHYSICAL SCIENCES

The learners must please note the following points:

- This subject consists of two sections:

PHYSICS	CHEMISTRY
Mechanics: Motion Graphs of motion Energy	**Matter and Materials:** Phases of matter Formula and names of substances Build of an atom Periodic table Kinetic molecular theory Chemical bonds Balancing of chemical reactions
Electricity and magnetism: Current electricity Electrostatics Magnetism	**Chemical changes:** Ions in watery solutions Electrolyte and conducting ability Types of chemical reactions
Waves, Sound and Light: Transversal waves Longitudinal waves Sound Electromagnetic radiation	**Stoichiometric Calculations**: Calculate Atomic mass Percentage calculations Empirical formulas

- To take this subject the learner must have good mathematical skills. There will be a lot of calculations in physics and in chemistry. Here is a formula sheet with some of the formulas that will be used in the different themes.

MOTION/*BEWEGING*

$v_f = v_i + a\Delta t$	$\Delta x = v_i\Delta t + \frac{1}{2}a\Delta t^2$
$v_f^2 = v_i^2 + 2a\Delta x$	$\Delta x = \left(\frac{v_f + v_i}{2}\right)\Delta t$

WORK, ENERGY AND POWER/*ARBEID, ENERGIE EN DRYWING*

$U = mgh$ or/*of* $E_P = mgh$	$K = \frac{1}{2}mv^2$ or/*of* $E_k = \frac{1}{2}mv^2$
$E_M = E_k + E_p$. or/*of* $E_M = K + U$	

WAVES, SOUND AND LIGHT/*GOLWE, KLANK EN LIG*

$v = f\lambda$	$T = \frac{1}{f}$
$E = hf$ or/of $E = h\frac{c}{\lambda}$	

ELECTROSTATICS/*ELEKTROSTATIKA*

$n = \frac{Q}{e}$	$Q = \frac{Q_1 + Q_2}{2}$

ELECTRIC CIRCUITS/*ELEKTRIESE STROOMBANE*

$Q = I\Delta t$	$\frac{1}{R_p} = \frac{1}{R_1} + \frac{1}{R_2} + \ldots$
$R_s = R_1 + R_2 + \ldots$	$V = \frac{W}{q}$

TABLE 2: FORMULAE/*TABEL 2: FORMULES*

$n = \frac{m}{M}$	$n = \frac{N}{N_A}$
$c = \frac{n}{V}$ or/of $c = \frac{m}{MV}$	$n = \frac{V}{V_m}$

* Homework must be completed every day to practice important concepts.
* Homework must be done by the learner not copied from a friend.
* Please study for the class tests that will help to prepare for the final gr 10 examination.
* Work in class. Listen to your teacher. Very important concepts are discussed every period.
* If possible, the learner must try not to be absent. Each period a lot of work will be discussed.

Calculation of marks according to the CAPS-document and ATP:

2026 ATP: Grade 10 – PHYSICAL SCIENCES

Programme of Assessment for grade 10						
PROGRAMME OF ASSESSMENT FOR GRADE 10						
ASSESSMENT TASKS (40 %)						END-OF-YEAR ASSESSMENT (60 %)
TERM 1		TERM 2		TERM 3		TERM 4
Type	Weighting and duration	Type	Weighting and duration	Type	Weighting and duration	Final Examination Two papers of 100 marks each **Paper 1**: Physics (100 marks) **Paper 2**: Chemistry (100 marks) Each paper having a duration of 2 hours)
Control Test 25% (1 x 75 marks) 1.5 hours		June Exam	25% (2 x 100 marks) 4 hours	Experiment	12,5% 50 marks and 2-hour duration)	
		Experiment	12,5% (50 marks 2-hour duration)	Control Test	25% (1 x 75 marks) 1.5 hours	
FINAL MARK PER TERM : 100% Control test		FINAL MARK PER TERM: 40% experiment 60% June exam		FINAL MARK PER TERM : 40% experiment 60% Control test		
FINAL MARK = 40 % (ASSESSMENT TASKS) +60 % (FINAL EXAM) = 100%						
Assessment plan and weighting of tasks in the programme of assessment for Grade 10						

2 Papers during the November examination:
Paper 1: Physics - 100 (2hours)
Paper 2: Chemistry - 100 (2hours)

TEGNIESE WETENSKAPPE

Die leerders moet asseblief let op die volgende punte:

- Hier volg 'n lys van temas wat in gr 10 behandel word:

FISIKA	CHEMIE
Meganika: Meting Beweging Kragte Energie Eenvoudige masjiene: hefbome, balke	**Materie en Materiale**; Klassifikasie van materie Molekulêre formules Balansering van chemise reaksies Metale, nie-matale en metalloids Struktuur van die atoom
Elektrisiteit en magnetisme: Stroomelektrisiteit Elektrostatika	**Termodinamika** Hitte en temperatuur

- Vir hierdie vak moet 'n leerder 'n goeie wiskundige aanleg besit. Daar is heelwat berekeninge in fisika sowel met BAIE formules. Hier is 'n formuleblad met van die formules wat gebruik gaan word.

MOTION / *BEWEGING*

$speed = \frac{distance}{time}$	$spoed = \frac{afstand}{tyd}$
$velocity = \frac{displacement}{time}$	$snelheid = \frac{verplasing}{tyd}$
$acceleration = \frac{change\ in\ velocity}{time}$	$versnelling = \frac{verandering\ in\ snelheid}{tyd}$

MOMENT OF FORCE (TORQUE) / *KRAGMOMENT / DRAAIMOMENT / WRINGKRAG*

$\tau = F \times d_{\perp}$ OR Moment = Force x perpendicular distance	$\tau = F \times d_{\perp}$ OF Kragmoment = krag x loodregte afstand

SIMPLE MACHINES / *EENVOUDIGE MASJIENE*

$MA = \frac{Load}{Effort}$ OR $MA = \frac{effort\ distance}{Load\ distance}$	$MV = \frac{Las}{Krag}$ OF $MV = \frac{krag\ afstand}{Las\ afstand}$

ENERGY / *ENERGIE*

$E_p = mgh$ OR / *OF* $U = mgh$	$E_k = \frac{1}{2}mv^2$ OR / *OF* $K = \frac{1}{2}mv^2$

ELECTROSTATICS / *ELEKTROSTATIKA*

$$Q = \frac{Q_1 + Q_2}{2}$$

ELECTRIC CIRCUITS / *ELEKTRIESE STROOMBANE*

	Serie	Parallel
$I = \frac{Q}{\Delta t}$	$R_T = R_1 + R_2 + R_3$	$R_p = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
$V = \frac{W}{Q}$	$I_T = I_1 = I_2 = I_3$	$I_T = I_1 + I_2 + I_3$
$R = \frac{V}{I}$	$V_T = V_1 + V_2 + V_3$	$V_T = V_1 = V_2 = V_3$

- Huiswerk moet asseblief elke dag gedoen word om sodoende belangrike konsepte in te oefen. Huiswerk moet asb. self gedoen word. Afskryf is verbode.
- Leer asseblief vir die klastoetse wat geskryf gaan word ter voorbereiding van die finale eksamen.
- Werk asseblief in die klas. Luister na die onderwyser. Belangrike inligting word elke periode deurgegee.
- Indien moontlik moet die leerder asseblief nie afwesig wees nie. Daar word baie werk in 'n periode afgehandel.
- PAT's moet asseblief goed gedoen word en betyds ingehandig word aangesien dit 25% van die finale punt tel.

<u>Puntberekening volgens die CAPS-dokument en ATP:</u>

		PAT	SBA
Termyn 1	Kontrole Toets		30%
	PAT 1	40%	
Termyn 2	Junie eksamen		40%
	PAT 2	30%	
Termyn 3	Kontrole Toets		30%
	PAT 3	30%	
		100%	100%
	Jaarpunt	25%	
	Jaarpunt		25%
	November eksamen	75%	
	TOTAAL	**100%**	

2 Vraestelle einde November:
Vraestel 1: Fisika - 150
Vraestel 2: Chemie - 75

TECHNICAL SCIENCES

The learners must please take note of the following points:

- Here is a list with the themes in gr 10:

PHYSICS	CHEMISTRY
Mechanics: Measurements Motion Forces Energy Simple machines: Levers and beams	**Materie en Materiale**; Classification of matter Molecular formula Balancing of chemical reactions Metals, non-metals and metalloids Structure of the atom
Elektricity and magnetism: Current electricity Electrostatics	**Thermo-dynamics** Heat and temperature

- To take this subject the learner must have good mathematical skills. There will be a lot of calculations in physics. Here is a formula sheet with some of the formulas that will be used in the different themes.

MOTION / *BEWEGING*

$speed = \frac{distance}{time}$	$spoed = \frac{afstand}{tyd}$
$velocity = \frac{displacement}{time}$	$snelheid = \frac{verplasing}{tyd}$
$acceleration = \frac{change\ in\ velocity}{time}$	$versnelling = \frac{verandering\ in\ snelheid}{tyd}$

MOMENT OF FORCE (TORQUE) / *KRAGMOMENT / DRAAIMOMENT / WRINGKRAG*

$\tau = F \times d_\perp$ **OR** **Moment = Force x perpendicular distance**	$\tau = F \times d_\perp$ **OF** **Kragmoment = krag x loodregte afstand**

SIMPLE MACHINES / *EENVOUDIGE MASJIENE*

$MA = \frac{Load}{Effort}$ **OR** $MA = \frac{effort\ distance}{Load\ distance}$	$MV = \frac{Las}{Krag}$ **OF** $MV = \frac{krag\ afstand}{Las\ afstand}$

ENERGY / *ENERGIE*

$E_p = mgh$ **OR / *OF*** $U = mgh$	$E_k = \frac{1}{2}mv^2$ **OR / *OF*** $K = \frac{1}{2}mv^2$

ELECTROSTATICS / *ELEKTROSTATIKA*

$Q = \frac{Q_1 + Q_2}{2}$

ELECTRIC CIRCUITS / *ELEKTRIESE STROOMBANE*

	Serie	Parallel
$I = \frac{Q}{\Delta t}$	$R_T = R_1 + R_2 + R_3$	$R_p = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$
$V = \frac{W}{Q}$	$I_T = I_1 = I_2 = I_3$	$I_T = I_1 + I_2 + I_3$
$R = \frac{V}{I}$	$V_T = V_1 + V_2 + V_3$	$V_T = V_1 = V_2 = V_3$

- Homework must be completed every day to practice important concepts. Homework must be done by the learner not copied from a friend.
- Please study for the class tests that will help to prepare for the final examination.
- Work in class. Listen to your teacher. Very important concepts are discussed every period.
- If possible, the learner must try not to be absent. Each period a lot of work will be discussed.
- The PAT'S must be done thoroughly. Also hand them in before the due date.
  The PAT'S count 25% of the final mark.

Calculation of marks according to the CAPS-document and ATP:

	TASKS	PAT	SBA
Term 1	Control Test		30%
	PAT 1	40%	
Term 2	June exam		40%
	PAT 2	30%	
Term 3	Control Test		30%
	PAT 3	30%	
		100%	100%
	Year mark	25%	
	Year mark		25%
	November exam	75%	
	TOTAL	**100%**	

2 Papers during the November examination:

Paper 1: Physics - 150
Paper 2: Chemistry - 75

LEWENSWETENSKAPPE / LIFE SCIENCES

Hierdie vak behels baie teorie & wetenskaplike terminologie, sowel as analisering van dat.
Daar moet elke dag opsommings gemaak word van die werk wat behandel was in die klas.
Die leerder moet ook die werk verstaan en toepas in grafieke.
Hierdie vak word al hoe meer wetenskaplik en benodig baie aandag.

This subject has a lot of theory and scientific terminology as well as analysing of date.
Summarising of work must take place everyday of the that was done in class.
The learner also needs to understand and apply the work in grapghs.
This subject is becoming very scientific and need a lot of attention from learner.

Hier volg 'n lys van die temas wat in gr 10 behandel word:
* Wiskundige berekenings om data te verwerk
* Wetenskaplike analises in interpretasie van grafieke

Here is a list of some of the themes in gr 10:
*** Mathematical calculations to process data**
*** Scientific analysis and interpetation of graphs**

Chemie van die lewe	**Chemistry of life**
Selle: meet van selle, sketse met organelle n byskrifte	**Cells: measurement of cells, sketches of structures and their labels**
Mitose	**Mitosis**
Plantweefsel	**Plant tissue**
Dierweefsel	**Animal tissue**
Vervoer en ondersteuning van plante	**Transport and support of plants**
Ondersteuning by diere	**Support at animals**
Vervoer by mense: Hart, bloedvate, struktuur en kardiale siklus	**Transport at Humans:** **Heart, blood vessels, cardiac cycle**
Omgewingstudies	**Environmental studies**
Energievloei	**Energy flow**
Biodiversiteit	**Biodiversity**
Geskiedenis van lewe	**History of life**

Jaarpunt / Year mark

KWARTAAL 1 / TERM 1	:	Prakties / Practical	25%
		Toets / Test	75%
KWARTAAL 2 / TERM 2	:	Opdrag / Assignment	25%
		Toets / Test	75%
KWARTAAL 3 / TERM 3	:	Prakties / Practical	25%
		Toets / Test	75%
KWARTAAL 4 / TERM 4	:	2 Vraestelle elk 150 punte 2 ½ uur /	
		2 question papers 150 marks 2 ½ hours	

FORMAAT VAN VRAESTELLE / FORMAT OF QUESTION PAPERS

AFDELING A: 50 PUNTE (Kort vrae multikeuse, terminologie, data hantering, pas kolomme)

SECTION A: 50 MARKS (short question multiple choice, terminology, data handling, match column)

AFDELING B: 100 PUNTE (Verskeidenheid vrae – toepassings vrae, 2 vrae van 50 en elk verdeel IN 2-4 VRAE.

SECTION B: 100 MARKS (Variety of question – applicable question 2 questions of 50 and each divided into 2-4 sub questions.

DEPARTMENTSHOOF:
ME. M. BEZUIDENHOUT

WISKUNDE

WISKUNDE	TEGNIESE WISKUNDE	WISKUNDE GELETTERDHEID
Me. M Bezuidenhout	Me. R de Wet	Me. M Keet

WISKUNDE EN TEGNIESE WISKUNDE

Om Wiskunde te bemeester en sukses te behaal, moet leerlinge die regte gesindheid hê, goeie dissipline en bereid wees om baie hard te werk.
Teenwoordigheid en aktiewe betrokkenheid elke periode is baie belangrik.
Sillabus vir Wiskunde en Tegniese Wiskunde stem baie ooreen.
Wiskunde verg meer abstrakte denke, terwyl Tegniese Wiskunde meer fokus op berekeninge wat gerig is op die tegniese studieveld.

·Huiswerk moet elke dag gedoen word.
·Gereelde hersiening van afgehandelde werk is belangrik.
·Wees goed voorbereid vir elke toets en eksamen.
·Bywoon van 9de periode een keer per week is verpligtend, aangesien nuwe werk behandel word. (Spesifieke dag sal met elke groep gereël word).
·Eksamen – 2 vraestelle van 150 punte elk aan einde van die jaar.
-Vraestel 1: Algebra.
-Vraestel 2: Trigonometrie en meetkunde.
·Leerlinge word getoets oor Gr.10, Gr.11 en Gr.12 werk aan die einde van Gr.12.
·Moenie moed opgee nie: Oefen, oefen en oefen. Werk word makliker as jy gereeld en hard werk.
·Tegniese Wiskunde is nie makliker nie, dit fokus net meer op tegniese berekeninge.

WISKUNDIGE GELETTERDHEID

Die inhoud van hierdie vak is meer gerig op toepassing in die elke dag se leefwêreld.

LEERINHOUD:
·Finansies (Dokumente, Inkomste/Uitgawes, lenings, beleggings, rente, tariefstelsels, belasting).
·Meting (oppervlakte en volume, berekening van koste).
·Datahantering.
·Kaartwerk.

EKSAMEN:
2 Vraestelle (150 punte elk).

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

DEPARTMENTSHOOF:
ME. M. BEZUIDENHOUT

MATHEMATICS

MATHS	TECHNICAL MATHS	MATHS LITERACY
Me. M Bezuidenhout	Me. R de Wet	Me. M Keet

MATHEMATICS AND TECHNICAL MATHEMATICS

To master mathematics and technical maths and to be successful in the two subjects, learners must have the correct attitude, good discipline and be prepared to work very hard. Attendance and active participation every period is very important.
The syllabus of both these subjects are nearly the same.
Mathematics needs more abstracts thoughts, as Technical Mathematics focuses on calculations in the technical study field.

·Home work must be done every day
·Constant revision of work done is important.
·Be well prepared for each test and exam.
·Attendance of the ninth period is compulsory since new work will be explained.
·Exam – Two question papers of 150 marks each will be written at the end of the year.
-Paper 2 – Algebra
-Paper 2 – Trigonometry and Geometry.

Gr.10, 11 and 12 work at the end of gr.12.
·Learners will be tested on:
·Do not loose hope: practise, practise, practise! Success will follow if you work hard constantly.
·Technical Mathematics is not easier, it is different, as it focus more on technical calculations.

MATHEMATICAL LITERACY

The content of the subject is focused on application related to real life contexts.

CONTENT TO LEARN
·Finances (documents, income/expenditure, loans, investments, interest, tariff systems and taxation).
·Measuring (area, volume, calculation of costs).
·Data handling.
·Map work.

EXAM
Two Question papers (150 marks each)

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Your Math, Your Future: Choosing the Right Path in Grade 9

Choosing a math stream in Grade 9

Choosing a math stream in Grade 9 dictates university admissions, TVET college opportunities, and future career paths. This guide compares Mathematics, Technical Mathematics, and Mathematical Literacy.

MATHEMATICS: The Abstract Logic

Focuses on theoretical concepts like Algebra and Calculus to develop advanced problem-solving skills.



Primary Focus: Abstract & Theoretical

Entry Guideline: Consistent 60%+ in Gr 9

Career Access: Widest (STEM, Med, Law)



STEM, MED, LAW

TECHNICAL MATHEMATICS: The Applied Science

Focuses on practical applications for mechanical, electrical, and civil engineering environments.



Primary Focus: Practical Technical App

Entry Guideline: Technical Interest

Career Access: Technical Trades & Eng



TECHNICAL TRADES & ENG

MATHEMATICAL LITERACY: The Life Skill

Focuses on real-life numerical contexts such as personal budgeting, interest, and taxes.



Primary Focus: Everyday Calculations

Entry Guideline: Practical Interest

Career Access: Non-STEM (HR, Marketing)



NON-STEM (HR, MARKETING)

GRADE 9 CHOICE

CAREER & DECISION GUIDE



STEM vs. Technical vs. General

Choose "Math" for Science/Medicine, "Tech Math" for Engineering/Artisans, and "Math Lit" for Humanities/Business.



Success Matters More Than Status

No subject is "easier"; choose the one where you can succeed and excel.



Check Your "Dream Career" Needs

Verify university admission requirements before deciding, as some degrees exclude specific math streams.

NotebookLM

MATHEMATICS

Departementshoof:
Me. S. Botha

TOERISME

Die vak toerisme is 'n aktuele vak, politieke onrus, natuurlike rampe, wêreld nuus oor die Engelse monargie vind hulle weg na 'n vraag in September of eindvraestel.

Leerlinge moet op hoogte bly van ekonomiese, sosiale en omgewings kwessies soos by die G7 beraad in Ireland bespreek word.

Koningin Elizabeth en die gemeenskaplike rykdom sowel as Brexit is ‘n algemene vraag in die Gr.12-eksamen. Aktuele sake word aangepas en op die sillabus toegepas en vrae word as ‘n gevallestudie opgestel om die toegepaste kennis te toets.

Vakkennis moet toegepas word in 'n toerisme vraestel en daarom moet leerlinge hulle gewis van inligting wat op 'n daaglikse wyse in die media verskyn.

Gr.11 is die belangrikste jaar in die 3 jaar siklus, dit is 'n uitbreiding van gr.10 werk en bevat Gr.12 werk wat in die eindeksamen van gr.12 gevra word.

Die samestelling in Toerisme is 7 take, 1 is 'n navorsingstaak – 6 is toetse en eksamens. Die PAT taak tel 25% van hul jaarpunt. Dit word na ure in 2 middae as 'n eksamen afgelê van 4ure elk.

U kind benodig toegang tot data en het verseker internet gebruik nodig.

In Toerisme word al 10 erfenisterreine in SA, sowel as Wêreldikone, buitelandse valuta en kliëntediens behandel. Ons besoek 'n plaaslike hotel vir kundigheid oor hierdie saak.

Ons behandel al die tipes vervoer, SAOG lande, en tydsones.



MOENIE TEVREDE WEES MET MINDER AS JOU BESTE NIE.

KWARTAAL 1:	TOETS – MAART	100 PUNTE
	VAARDIGHEIDSASSESSERINGS TAAK	
KWARTAAL 2:	PAT TAAK	100 PUNTE
	JUNIE TOETS	200 PUNTE
KWARTAAL 3:	DATA HANTERING	50 PUNTE
	SEP. EKSAMEN	200 PUNTE

Department Head:
Me. S. Botha

TOURISM

The subject tourism is a current subject, political unrest, natural disasters; world news about the English monarchy finds its way to a question in September or final paper.

Learners must keep updated about economic, social and environmental issues as at the G7 summit in Ireland to be discussed.

Queen Elizabeth and the common wealth as well as Brexit is a common question in the Gr.12 exam paper. Current affairs are adapted and applied to the syllabus and questions are set as a case study to test the applied knowledge.

Subject knowledge must be applied in a tourism paper and therefore learners must be sure of information that appears in the media on a daily basis.

Gr.11 is the most important year in the 3-year cycle, it is an extension of Gr.10 work and contains Gr.12 work that is required in the final examination of Gr.12.

The composition in tourism, is 7 tasks, 1 is a research task, 6 are tests and exams. The PAT task makes up 25% of their year mark. This is done after school during

Your child will need access to data and internet usage.

We do all 10 Heritage sites in SA, Icons of the World, Foreign exchange and customer service. We visit a local hotel for their expertise on this matter.

We deal with all types of transport, SADC countries, and time zones.



NEVER SETTLE FOR LESS THAN YOUR BEST.

TERM 1:	TEST - MARCH	100 MARKS
	PAT TASK	
TERM 2:	SKILLS ASSESSMENT TASK	100 MARKS
	JUNE TEST	200 MARKS
TERM 3	DATA HANDLING	50 PMARKS
	SEP. EXAM	200 MARKS

ME. M. CILLIERS
VAKHOOF

GEOGRAFIE

Geografie is ‘n vak met baie leerwerk en praktiese toepassing van teorie op ‘n kaart. Die leerder moet uit die boks kan dink en die wêreld om hom/haar kan visualiseer. Soos ander vakke moet leerder genoeg tyd spandeer om die inhoud baas te raak en die inhoud kan toepas op vrae. Uitdagings m.b.t. die inhoud moet vroeg genoeg gekommunikeer word sodat leerder op datum kan bly en inhoud deeglik verstaan.

KWARTAAL 1

Opdrag 1:	Kaartwerk taak	60 punte (20% van jaarpunt)
Opdrag 2:	Toets – Teorie	60 punte (20% van jaarpunt)

KWARTAAL 2

Opdrag 3:	Navorsingstaak		100 punte (20% van jaarpunt)
Opdrag 4:	Halfjaar eksamen:		
	Teorie	120 punte	150 punte
	Kaartwerk	30 punte	(20% van jaarpunt)

KWARTAAL 3

Opdrag 5:	Toets - Teorie		60 punte (20% van jaarpunt)
Opdrag 6:	Rekord eksamen:		
(Slegs Gr12)	Vraestel 1	150 punte	100 punte
	Vraestel 2	150 punte	(20% van jaarpunt)

(Neem kennis dat beide vraestelle kaartwerk bevat.)



MS. M. CILLIERS
SUBJECT HEAD

GEOGRAPHY

Geography is a subject with a lot of learning and practical application of theory on a map. The learner must be able to think outside the box and visualise the world around him/her. Like other subjects, the learner must spend enough time to master the content and be able to apply the content to questions. Challenges regarding the content must be communicated early enough so that the learner can stay up to date and understand the content thoroughly.

TERM 1

Task 1:	Map work task	60 marks (20% of year mark)
Task 2:	Test – Theory	60 marks (20% of year mark)

TERM 2

Task 3:	Mapwork class test		100 marks (20% of year mark)
Task 4:	Mid year exam:		
	Theory	120 marks	150 marks
	Mapwork	30 marks	(20% of year mark)

TERM 3

Task 5:	Research project		60 marks (20% of year mark)
Task 6:	Record exam:		
(Only Gr12)	Paper 1	150 marks	100 marks
	Paper 2	150 marks	(20% of year mark)

(Please take note that both papers have map work questions)



GEOGRAFIE

Inligtingstuk

Geografie handel oor klimaat. geomorfologie (klippe en landvorms), bevolking studies, ontwikkeling en die ekonomie. `n Leerder wat belangstel in Geografie moet uit die boks kan dink en gebeurtenisse en prosesse kan visualiseer.

Dit is `n feite gebaseerde vak wat dit interessant maak. Jy sal daaglikse gebeurtenisse soos weer en die omgewing om jou kan verstaan.

GEOGRAPHY

Information

Geography is the study of climatology, geomorphology (rocks and landscapes), population studies, development and the economy. A learner that is interested in Geography must be able to think out of



DEPARTEMENTSHOOF:
Me. M. de Bruin

EKONOMIESE WETENSKAPPE

BESIGHEIDSTUDIE	REKENINGKUNDE
VAKHOOF	**VAKHOOF**
ME. Z. VAN STADEN	ME. A. TOLMAY

BESIGHEIDSTUDIES

Besigheidstudies is `n vakgebied met `n groot aantal leerwerk en benodig volgehoue akademiese bestuur.

Vir Besigheidkennis & bestuur.
Entrepeneurskap, innovasie & kreatiwiteit.

Ons versoek dat die ouers ons sal bystaan met die volgende aksies:

·Die leerder moet elke dag by die skool wees.
·Die onderwerpe soos afgehandel in klas dadelik op te som en te leer. Verklein die hoeveelheid werk en maak aanleer en weergee van feite makliker. Aangesien daar gereelde klastoetse geskryf sal word.
·Alle take en opdragte betyds in te handig.
·Die leerder moet oop kommunikasie handhaaf ten opsigte van probleme en uitdagings wat ervaar word.

Termyn	Assessering	Punte
Termyn 1	Taak	50
	Toets	100
Termyn 2	Aanbieding	50
	Toets	100
	Eksamen	2 x150
Termyn 3	Projek	50
	Toets	100
Termyn 4	Eksamen	2 x150



DEPARTEMENT HEAD:
Me. M. de Bruin

ECONOMIC SCIENCES

BUSINESS STUDIES	ACCOUNTING
SUBJECT HEAD	SUBJECT HEAD
MS. Z. VAN STADEN	MS. A. TOLMAY

BUSINESS STUDIES

Business studies is a field with a large amount of work to study and requires sustained academic management.

For Business knowledge & management.
Entrepreneurship, innovation & creativity.

We request that the parents assist us with the following actions:

- The learner must be at school every day.
- Summarize and learn the topics as completed in class immediately. This reduces the amount of work and makes learning and recalling of facts easier. As regular class tests will be written.
- Submit all tasks and assignments on time.
- Will have open communication regarding problems and challenges experienced.

Term	Assessment	Marks
Term 1	Task	50
	Test	100
Term 2	Presentation	50
	Test	100
	Exam	2 x150
Term 3	Project	50
	Test	100
Term 4	Exam	2 x150



REKENINGKUNDE

Rekeningkunde is `n vakgebied met `n groot aantal leerwerk en benodig volgehoue akademiese bestuur. Die toepas van die leerder se kennis is noodsaaklik.

Ons versoek dat die ouers ons sal bystaan met die volgende aksies:

·Die leerder moet elke dag by die skool wees.
·Die onderwerpe soos afgehandel in klas dadelik op te som en te leer. Verklein die hoeveelheid werk en maak aanleer en weergee van feite makliker. Aangesien daar gereelde klastoetse geskryf sal word.
·Alle take en opdragte betyds in te handig.
·Die leerder moet oop kommunikasie handhaaf ten opsigte van probleme en uitdagings wat ervaar word.
·Werk moet ingeoefen word.
·Moet elke transaksie kan analiseer
·Toepassingsvak
·Geen Wiskunde geletterdheid

Termyn	Assessering	Punte
Termyn 1	Geskrewe verslag	50
	Toets	100
Termyn 2	Projek	100
	Test	200
Termyn 3	Gevallestudie	100
	Toets	100
Termyn 4	Eksamen	2 x150



ACCOUNTING

Accounting is a field with a large amount of work to study and requires sustained academic management. Applying the learner's knowledge is essential.

We request that the parents assist us with the following actions:

- The learner must be at school every day.
- Summarize and learn the topics as completed in class immediately. This reduces the amount of work and makes learning and recalling of facts easier. As regular class tests will be written.
- Submit all tasks and assignments on time.
- Will have open communication regarding problems and challenges experienced.
- Work must be practiced.
- Must analyze each transaction.
- Application subject
- No Maths Lit

Term	Assessment	Marks
Term 1	Written report	50
	Test	100
Term 2	Project	100
	Test	200
Term 3	Case study	100
	Test	100
Term 4	Exam	2 x150



VAKHOOF:
MR. B. BOTHA

DRAMATIESE KUNSTE

- Moet die oudisie slaag -

Dramatiese kunste is `n vakgebied met `n groot aantal leerwerk en praktiese take. Dis 'n kreatiewe, kunstige skoolvak, maar nogtans akademiese vak. Die vak benodig 'n volgehoue akademiese bestuur en moet nie onderskat word nie. Taal & geskiedenis aanleg is noodsaaklik.

Ons versoek dat die ouers ons sal bystaan met die volgende aksies:

·Kleiner groepe gee die geleentheid om puik prestasies te mag behaal.
·Die leerder moet elke dag by die skool wees.
·Die onderwerpe soos afgehandel in klas dadelik op te som en te leer. Verklein die hoeveelheid werk en maak aanleer en weergee van feite makliker.
·Praktiese oefening moet per afspraak met onderwyser gemaak word.
·Alle take en opdragte betyds in te handig.
·Die leerder moet oop kommunikasie handhaaf ten opsigte van probleme en uitdagings wat ervaar word.

Termyn	Assessering	Punte
Termyn 1	Geskrewe taak	25
	Prakties	25
	Toets	*50*
Termyn 2	Geskrewe taak	25
	Prakties	25
	Eksamen	*100*
	Praktiese eksamen	*100*
Termyn 3	Geskrewe taak	25
	Prakties	25
	Toets	*50*
Finaal	Finaal Eksamen	150
	Finaal Prakties	150



SUBJECT HEAD:
MR. B. BOTHA

DRAMATIC ARTS

- Must pass the audition -

Dramatic art is a field with a large amount of theory and practical tasks. It is a creative, artistic school subject, but still an academic subject. The subject requires sustained academic management and should not be underestimated. Language & history aptitude is essentia.

We request that the parents assist us with the following actions:

·Smaller groups provide the opportunity to achieve excellent results.
·The learner must be at school every day.
·Summarize and learn the topics as completed in class immediately. Reduce the amount of work and make learning and reproducing facts easier.
· Practical exercise must be done by appointment with the teacher.
·Submit all tasks and assignments on time.
·The learner must maintain open communication with regard to problems and challenges experienced.

Term	Assessment	Marks
Term 1	Written task	25
	Practical	25
	Test	*50*
Term 2	Written Task	25
	Practical	25
	Exam	*100*
	Practical Exam	*100*
Term 3	Written Task	25
	Practical	25
	Test	*50*
Final	Exam	150
	Final Practical	150



DEPARTEMENTSHOOF/ VAKHOOF: ME. M. DE BRUIN

REKENAARTOEPASSINGSTEGNOLOGIE

Rekenaartoepassingstegnologie is die studie van die geïntegreerde komponente van 'n rekenaarstelsel (apparatuur en programmatuur) en die praktiese tegnieke om dit effektief te kan gebruik en aan te wend om daaglikse probleme mee op te los. Die oplossings van probleme word ontwerp, bestuur en verwerk met behulp van eindgebruikersprogrammatuur en word gekommunikeer met behulp van toepaslike inligtings- en kommunikasietegnologieë (IKT's). IKT's is die kombinasie van netwerke, apparatuur en programmatuur asook die betrokke kommunikasie- en samewerkingsmiddele wat die verwerking, bestuur en uitruil van data, inligting en kennis moontlik maak. Die diagram hieronder illustreer hoe die hoofonderwerpe van Rekenaartoepassingstegnologie, as 'n vak, die onderrig van digitaal-wyse leerders ondersteun.

Die onderstaande tabel verskaf die onderwerpe en subonderwerpe in die Rekenaartoepassingstegnologie-kurrikulum.

Onderwerp	Subonderwerp	Gewig (Volume)	Hulpbronne
Oplossingsontwikkeling	* Woordverwerking * Databasisse *Sigblaaie *Vierde toepassing	60%	Rekenaars Handboek Internettoeggang * Webblaaie * Soekenjin Kantoorsuite * Woordverwerker * Sigblad * Aanbiedings * Databasis HTML-redigeerder (Notepad++) Tiktutor Sekuriteitsprogrammatuur (Antivirus/Internetsekuriteit)
Stelseltegnologieë	* Konsepte van rekenalisering * Programmatuur *Apparatuur *Rekenaarbestuur	13%	
Netwerktegnologieë	* PANS's * Wan's *LAN's en WLAN's	5%	
Internettegnologieë	* Internet en Wêreldwye web * E-kommunikasie	5%	
Inligtingsbestuur	* Vind en verkry toegang tot data en inligting * Verwerk data en inligting * Bied die oplossing aan	12%	
Sosiale Implikasies	* Impak op die samelewing * Wetlike-, etiese- en sekuriteitskwessies * Gesondheid- en ergonomiese kwessies * Omgewingskwessies	5%	

In RTT is die projek die praktiese assesseringstaak (PAT) Die projek moet dit vir die leerder moontlik maak om 'n kombinasie tegnieke, kennis en vaardighede op nuwe situasies toe te pas om die taak af te handel, of om 'n doelwit te bereik. Dit moet die leerders ook aanmoedig om inligting, data en idees te gebruik en te kombineer om probleme op te los, patrone, verwantskappe of neigings te ontdek en te verduidelik, en om gedrag/gebeurtenisse te voorspel.

Die RTT PAT fokus op inligtingsbestuur en die gebruike van IKT's en toepassingsprogrammatuur.

Dit dek die volgende:

* Identifisering, vind en verkryging van toegang tot inligting/data;
* Gebruik, manipulering en verwerking van inligting en data wat ingesamel is; en
* Aanbieding van oplossings/bevindinge/aanbevelings.



Programme of Assessment SBA per Term			External Assesment
Term 1: 1 Practical Test + 1 Theory test	**Term 2:** 1 Test + 1 Examination comprising 2 papers: 1 theory + 1 practical	**Term 3:** 1 Test + 1 Examination comprising 2 papers: 1 theory + 1 practical	**Term 3:** 1 External examination comprising 2 papers: 1 theory + 1 practical + Practical Assessment Task
Practical Assessment Task (PAT)			

Term Mark (Term 1-3): * Each term, add raw marks and total and convert to % for term mark

SBA Mark: * Add raw marks and totals for assessments tasks from term 1 - term 3 and convert to 25%

External Examination:

* Convert paper 1 to 25% * Convert paper 2 to 25% * Convert PAT to 25%

DEPARTMENT HEAD/
SUBJECT HEAD: MS. M. DE BRUIN

COMPUTER APPLICATIONS TECHNOLOGY

Computer Applications Technology is the study of the integrated components of a computer system (hardware and software) and the practical techniques for their efficient use and application to solve everyday problems. The solutions to problems are designed, managed and processed via end-user applications and communicated using appropriate information and communication technologies (ICTs). ICTs are the combination of networks, hardware and software as well as the means of communication, collaboration and engagement that enable the processing, management and exchange of data, information and knowledge. The diagram below illustrates how the main topic areas of the Computer Applications Technology subject support the teaching of digitally enabled learners.

The table below sets out the topics and sub-topics in the Computer Applications Technology curriculum.

Topic Area	Sub-topics	Weighting (Volume)	Recoures
Solution Development	* Word Processing * Databases * Spreadsheets * Fourth Application	60%	Computers Textbook Internet Access * Web Browser * Search Engine Office Suite * Word Processor * Presentations * Database HTML Editor (Notepad++) Typing Tutor Security Software (Anti-virus/Internet Security)
Systems Technologies	* Concepts of Computing * Software * Hardware * Computer Management	13%	
Network Technologies	* PANs * Wans * LANs en WLANs	5%	
Internet Technologies	* Internet and World Wide Web * E-Communications	5%	
Information Management	* Find Access Data Information * Process Data and Information * Present Solution	12%	
Social Implications	* Impact on Society * Legal and Ethical and Security Issues * Health and Ergonomic Issues * Enviromental Issues	5%	

In CAT the project is the practical assessment task (PAT) The project should enable a learner to apply a combination of techniques, knowledge and skills to new situations to complete the task or accomplish a goal. It should also encourage learners to use and combine information, data and ideas to solve problems, discover and explain relationships or trends and predict behaviour/events.

The CAT PAT focuses on Information Management and the use of ICTs and application software.

It covers the following:

* Identifying, finding and accessing information/data;
* Using, manipulating and processing information and data gathered; and
* Presentation of solutions/findings/recommendations.



Programme of Assessment SBA per Term			External Assesment
Term 1: 1 Practical Test + 1 Theory test	**Term 2:** 1 Test + 1 Examination comprising 2 papers: 1 theory + 1 practical	**Term 3:** 1 Test + 1 Examination comprising 2 papers: 1 theory + 1 practical	**Term 3:** 1 External examination comprising 2 papers: 1 theory + 1 practical + Practical Assessment Task
Practical Assessment Task (PAT)			

Term Mark (Term 1-3): * Each term, add raw marks and total and convert to % for term mark

SBA Mark: * Add raw marks and totals for assessments tasks from term 1 - term 3 and convert to 25%

External Examination:

* Convert paper 1 to 25%
* Convert paper 2 to 25%
* Convert PAT to 25%

HOOF VAN TEGNIES:
MNR. A. BOTES

SPESIALISERINGSVAKKE

DEPARTTEMENTSHOOF:
MNR. A. ACKRON

ELEKTRIES	INGENIEURS GRAFIKA & ONTWERP (IGO)
MEGANIES	
SIVIEL	

·Hierdie vakke bevat teoretiese kennis asook 'n praktiese afdelings.
·**Alle PAT (Practical Assessment Task) moet voltooi wees vir Gr.12**.
·LET DAAROP : **Indien PAT nie ingehandig word in Graad 12 nie, kan uitslae terug gehou word tot die daaropvolgende jaar wanneer PAT ingehandig kan word**.
·Leerders moet daarop let dat as 'n PAT uitstaande is in die einde van die jaar kan dit lei tot druiping van die vak.

PUNTE INDELING

Jaarpunt tel = 40%
Pat = 20%
FINALE EKSAMEN = 40%

PAT DATUMS (Punte word toegeken volgens fases)

FASE 1 : MAART
FASE 2 & 3 : JUNIE
FINAAL : JULIE
} GR 12

FASE 1 : MAART
FASE 2 & 3 : JUNIE
FINAAL : AUGUSTUS
} GR 10 & 11






HEAD OF TECHNICAL:
MR. A. BOTES

SPESIALISATION SUBJECTS

DEPARTMENT HEAD:
MR. A. ACKRON

ELECTRICAL	ENGINEERING GRAPHICS & DESIGN (EGD)
MECHANICAL	
CIVIL	

·This subjects consist of a theoretical as well as a practical component.
·**ALL PAT (practical Assessment Task) must be completed for Gr.12**.
·NOTICE: **If the PAT is not submitted in Grade 12, results can be withheld until the following year when the PAT can be submitted**.
·Learners must pay attention, if a PAT is outstanding at the end of the year, it may lead to failure of the subject.

MARK ALLOCATION

Year mark	=	40%
Pat	=	20%
FINAL EXAM	=	40%

PAT DATES (MARKS ARE ALLOCATED ACCORDING TO PHASES)

PHASE 1	: MARCH	} GR 12	PHASE 1	: MAART	} GR 10 & 11
PHASE 2 & 3	: JUNE		PHASE 2 & 3	: JUNIE	
FINAL	: JULY		FINAL	: AUGUST	






VAKHOOF/ SUBJECT HEAD:
ME. D. JOOSTE

LEWENSORIËNTERING / LIFE ORIENTATION

-Doelwitstelling / Goalsettings.
-Verhoudings / Relationships.
-Toelatingsvereistes / Admission Points.
-Finansiële bystand / Financial assistance.
-Demokratiese prosesse / Democratic participation.
-Sport se rol / Role of sport
-Geweld / Violence.
-Risiko gedrag / Risky behaviour.
-CV
-Studiemetodes / Study plan.



TERMYN/TERM Gr 10 & 11

1	TAAK **/** TASK PAT / PET	90 10	100
2	EKSAMEN / EXAM	100	**100**
3	TAAK / TASK PAT **/** PET	90 10	100
4	FINALE EKSAMEN / FINAL EXAM	100	100
	TOTAAL / TOTAL		400