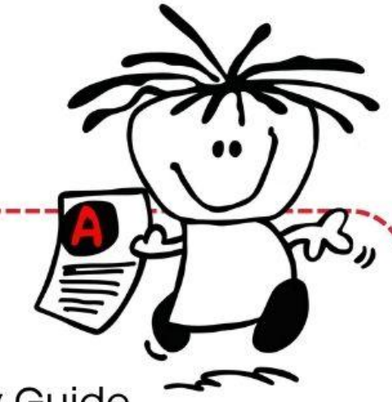
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GRADE 12

Life Sciences



2027

A **one-stop-teaching-tool** created by combining:

- the official DBE ATP
- **T**he **A**nswer **S**eries Life Sciences Class Text & Study Guide
- **TAS** resources
- curated online resources
- shared resources from our **TAS** WhatsApp Teacher Community

Important Note

This TAS ATP & Lesson Planner is based on the DBE ATP. However, many provinces have chosen to make adjustments to either the timing or content. ***It is the responsibility of each educator to follow their provincial ATP.***

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ACADEMIC WEEKS	CAPS TOPIC	CORE CONTENT & PAGE NUMBERS		SUGGESTED EXERCISES	POSSIBLE PRACTICAL TASKS / CONSOLIDATION	DATE CONTENT WAS COMPLETED
		Based on TAS Gr 12 LS Part 1 & 2 Class Text & Study Guides				
WEEK 1 – 3 *13 – 29 Jan* Lesson Plan 1 Lesplan 1 Lesson Plan 2 Lesplan 2 Lesson Plan 3 Lesplan 3	**DNA: The code of life** *13 school days* PAPER 2: 27 marks	Revise cell structure	p. 2	p. 85: Q1	Watch this useful video to revise cell structure	
		Types of nucleic acids	p. 2 – 3	p. 85: Q3	Watch this useful video on nucleic acids	
		DNA location	p. 3			
		History of DNA	p. 3 – 4	p. 85: Q2	- Build a model of DNA's structure (video here) - DNA extraction p. 9 (Prac) - Watch this useful video on DNA extraction	
		DNA structure	p. 4 – 6	p. 85/86: Q4 – Q6		
		DNA function	p. 8			
		DNA replication	p. 6 – 7	p. 87: Q10; p. 91: Q19	Watch this useful video on DNA replication	
		DNA profiling	p. 10 – 12	p. 88/89: Q11 – Q15	- Read and interpret different DNA profiles (Prac) - Watch this useful video on DNA profiling	
		RNA location	p. 13		- Interactive gel electrophoresis lab here - Watch useful videos: proteins; transcription; translation - Revise main concepts using this document: ENG | AFR - Self-marking quiz on DNA and RNA here - Find revision exercises on this topic here - Revise terms for this topic on p. 113 **Unit 1**	
		RNA structure	p. 13			
		RNA function	p. 14	p. 86/87: Q7 – Q9		
		Protein synthesis	p. 15 – 18	p. 89/90: Q16 – Q18		
		Gene mutations	p. 8 & 18 – 20	p. 91: Q19 – Q21		
WEEK 4 & 5 *1 – 12 Feb* Lesson Plan 1 Lesplan 1 Lesson Plan 2 Lesplan 2	**Meiosis** *10 school days* PAPER 2: 21 marks	Revise structure of chromosomes	p. 21 – 22	p. 92: Q1	Watch this useful video on chromosomes	
		Terms relating to karyotypes	p. 23	p. 92: Q2 – Q4; p. 96: Q14	Watch this useful video on karyotypes	
		Revise Mitosis	p. 24 – 26	p. 92: Q5; p. 95: Q13	Watch this useful video to revise Mitosis	
		Process of Meiosis	p. 26 – 32	p. 95: Q11 & Q12	Identify phases of Meiosis (Prac)	
		Importance of Meiosis	p. 33 – 34	p. 93: Q6 & 7; p. 98: Q19	- Revise main concepts using this document: ENG | AFR - Self-marking quiz on Meiosis here - Find revision exercises on this topic here - Revise terms for this topic on p. 113 **Unit 2**	
		Abnormal Meiosis	p. 35 – 36	p. 96/97: Q15 – Q18		
		Comparison between Mitosis and Meiosis	p. 32 & 36 – 38	p. 94: Q8 – 10		
WEEK 6 *15 – 19 Feb* Lesson Plan Lesplan	**Reproduction in Vertebrates** *5 school days* PAPER 1: 8 marks	External and internal fertilisation	p. 2 – 3	p. 96: Q1 & 2		
		Ovipary, ovovivipary and vivipary	p. 4 – 5	p. 96: Q3	Watch this useful video on ovi-, ovovivi- and vivipary	
		Amniotic egg	p. 5 – 6	p. 96: Q4; p. 98: Q9	Watch this useful video on the amniotic egg	
		Precocial and altricial development	p. 6 – 8	p. 96/97: Q5 & Q6	Watch this useful video on precocial and altricial dev.	
		Parental care	p. 8 – 9	p. 97: Q7 & Q8; p. 98: Q10	Revise terms for this topic on p. 139 **Unit 1**	
WEEK 7 – 9 *22 Feb – 12 Mar* Lesson Plan 1 Lesplan 1 Lesson Plan 2 Lesplan 2	**Human Reproduction** *15 school days* PAPER 1: 41 marks	Revise human life cycle	p. 9	p. 98: Q1		
		Structure and functions of male reproductive system	p. 10 – 13	p. 99: Q2 & Q3; p. 107: Q23	Study and identify different cells and tissues in the human reproductive system (Prac)	
		Structure and functions of female reproductive system	p. 13 – 14	p. 101: Q6		
		Puberty	p. 15 – 16	p. 100: Q5		
		Spermatogenesis and structure of the sperm cell	p. 16 – 17	p. 101: Q7	Useful video: Spermatogenesis; sperm cell	
		Oogenesis and structure of ovum	p. 17 – 18	p. 101: Q8	Useful videos: Oogenesis; Ovum	
		Events of the menstrual cycle	p. 19 – 21	p. 102: Q10	Watch this useful video on how menstruation works	
		Hormonal control of the menstrual cycle	p. 21 – 23	p. 102/103: Q11 & Q12; p. 104: Q15	Watch this useful video on the menstrual cycle detail	
		Fertilisation and development of the zygote	p. 23 – 24	p.101: Q9; p. 103: Q13; p. 104: Q17; p. 107: Q24	Useful videos: Fertilisation; Development of zygote	
		Implantation and pregnancy	p. 25 – 28	p. 103: Q14; p. 109: Q27 – Q29	Watch this interesting video on pregnancy	
		Birth	p. 28 – 29	p. 104: Q16; p. 105: Q18 – Q20	- Revise main concepts using this document: ENG | AFR - Self-marking quiz on reproduction in humans/vertebrates here - Find revision exercises on this topic here - Revise terms for this topic on p. 139 **Unit 2**	
		Contraception	p. 30 – 32	p. 100: Q4; p. 106: Q21 & Q22; p. 108: Q25 – Q26		



Term 1's teaching time has been reduced by 1 week. Make sure to keep up the pace!

NOTE
Questions are suggested according to when learners will be able to do them.

PART 2

PART 2

PART 1

PART 1

WEEK 10 *15 – 19 March* **Lesplan 1** **(No Eng.)**	**Genetics & Inheritance** *5 school days* PAPER 2: 48 marks	Genetics introduction	p. 40		Watch this useful video: What are chromosomes?	
		Gregor Mendel – experiments and conclusions	p. 41		Introduction to genetics worksheets & activities here	
		Genes and alleles	p. 42		What is an allele?	
		Dominant and recessive alleles	p. 42			
		Genotype and phenotype	p. 43 – 44	p. 98: Q1; p. 106: Q25		
		Meiosis and the separation of alleles	p. 44 – 45			
		Monohybrid crosses	p. 46 – 50	p. 98: Q2	Worksheet activity: Model heredity	
		Complete dominance	p. 50 – 51	p. 99: Q3 & 4		
		Incomplete dominance	p. 51– 52	p. 101: Q9		
		Co-dominance	p. 52 – 53	p. 101: Q10 & Q11 **PART 2**	- One page summary: ENG | MEMO | AFR - Co-dominance worksheet practice on cows here	
Formal assessments: TASK 1 – Practical (min 30) TASK 2 – Test (min 50)						

NOTE

Not all shared resources are TAS creations – some are shared contributions from our Teacher WhatsApp group.

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ACADEMIC WEEKS	CAPS TOPIC	CORE CONTENT & PAGE NUMBERS		SUGGESTED EXERCISES	POSSIBLE PRACTICAL TASKS / CONSOLIDATION	DATE CONTENT WAS COMPLETED
		Based on TAS Gr 12 LS Part 1 & 2 Class Text & Study Guides				
 Suggested shift in teaching weeks due to loss of time in Term 1.		Multiple alleles and blood groups	p. 54 – 55	p. 102/103: Q14 – Q16		
		Polygenic characteristics (not in ATP)	p. 55	p. 102: Q12 & Q13		
		Dihybrid crosses	p. 55 –59	p. 103 – 105: Q18 – Q23	- Various genetic simulations with worksheets here (Prac) - Dihybrid cross worksheets and activities here	
		Sex chromosomes and sex determination	p. 60	p. 105: Q24	Toothpick fish genetics: ENG & MEMO | AFR & MEMO (Prac)	
		Sex-linked genes and sex-linked disorders	p. 61 – 63	p. 106/107: Q26 – Q28	- One page summary: ENG | MEMO | AFR - Interactively breed pigeons based on their genetic traits - Build a bird activity (Prac)	
		Genetic pedigrees – analyse a pedigree diagram Complete dominance	p. 64 – 65	p. 99/100: Q5 – Q7	- Watch this useful video on analysing a pedigree diagram on complete dominance: AFR | ENG	
		Genetic pedigrees – analyse a pedigree diagram X-linked recessive disorder	p. 66 – 67	p. 103: Q17; p. 107: Q29	- Watch this useful video on analysing a pedigree diagram with an X-linked recessive disorder: AFR | ENG	
		Genetic pedigrees – analyse a pedigree diagram X-linked dominant disorder	p. 68	p. 107: Q30	- Toothpick fish genetics: ENG & MEMO | AFR & MEMO (Prac) - Genetics Practical 2 (Prac): ENG & MEMO | AFR & MEMO	
		Chromosomal mutations	p. 68			
		Gene mutations	p. 69	p. 110: Q35	- Explore the cause outcome of certain mutations here - Mutate a gene in real time (virtually) here	
		Beneficial, harmless and harmful mutations	p. 69 – 70	p. 108: Q31		
		Albinism	p. 70 – 71	p. 109: Q32 & Q33		
		Autosomal dominant disorders	p. 71	p. 101: Q8		
		Sickle cell disease (not in ATP)	p. 72	p. 110: Q34	-One page summary: ENG | MEMO | AFR	
		Genetic testing and genetic counselling	p. 73		Watch this useful video to review genetics	
		Mitochondrial DNA	p. 73 – 74			
		Biotechnology and genetic engineering	p. 74 – 75			
		GMO's – examples, pros and cons	p. 76 – 79	p. 111: Q36 & Q37	Watch this useful video on Genetic Engineering	
		Cloning – process, types, pros and cons	p. 80 –82	p. 112: Q38	Various resources on cloning here	
		Stem cells – types, sources and uses	p. 82 – 84	p. 112: Q39	Various resources on stem cells here	
		Paternity testing – blood grouping and DNA profiling	p. 84	NOTE: Questions are suggested according to when learners will be able to do them.	- Revise terms for this topic on p. 114 **Unit 3** & here ENG | AFR - One page summary: ENG | MEMO | AFR - Find revision exercises on this topic here - Self-marking quiz on genetics here & here	
WEEK 1 – 3 (½) *6 – 21 Apr* Lesson Plan 2 Lesplan 2	**Genetics & inheritance** *12 school days* PAPER 2: 48 marks *(continued)*			PART 2		
WEEK 3 (½) – WEEK 6 (½) *22 Apr – 11 May* Lesson Plan 1 Lesplan 1 Lesson Plan 2 Lesplan 2 Lesson Plan 3 Lesplan 3	**Responding to the environment (Humans)** *12 school days* PAPER 1: 54 marks	Introduction	p. 32		NOTE: Not all shared resources are TAS creations – some are shared contributions from our Teacher WhatsApp group.	
		Human nervous system	p. 33			
		Nervous tissue – structure and classification of neurons	p. 33 – 35			
		Transmission of nerve impulses – synapses	p. 35 – 36			
		Structure of a nerve	p. 36 – 37	p. 110: Q2; p. 112: Q5	Watch this useful video on neuron structure and function	
		Subdivisions of the nervous system	p. 37			
		Central nervous system – brain	p. 38 – 40			
		Central nervous system – spinal cord	p. 41 – 42	p. 112/113: Q6 – Q8	One page summary: ENG & MEMO | AFR & MEMO	
		Peripheral nervous system – reflex actions and arcs	p. 42 – 44	p. 110: Q1; p. 111: Q3 & Q4; p. 113: Q9	Watch this useful video on the nervous system & reflex arcs	
		Autonomic nervous system – sympathetic and parasympathetic nervous systems	p. 44 – 45	p. 114: Q10 – Q12	- p. 45 Reaction time practical (Prac) - One page summary: ENG & MEMO | AFR & MEMO	
		Disorder of the nervous system – Alzheimer's	p. 48	p. 115: Q13	Class activity – A case study on Alzheimer's disease	
		Disorder of the nervous system – Multiple sclerosis	p. 49	PART 1		
		Injuries to the nervous system – brain damage	p. 50			

WEEK 3 (½) – WEEK 6 (½) *22 Apr – 11 May*	**Responding to the environment (Humans)** *(continued)*	Injuries to the nervous system – spinal damage	p. 50 – 51	p. 115: Q14; p. 116: Q17		
		Effect of drugs (not in ATP)	p. 51 – 53	p. 115/116: Q15 & Q16		- Revise terms for this topic here ENG | AFR - Reaction time practical (Prac): ENG | AFR | MEMO - Self-marking quiz on the nervous system here
		Human eye – position, external and internal structures	p. 54 – 57	p. 116/117: Q18 – Q20		Eye model on paper here
		Pupillary mechanism	p. 58	p. 117/118: Q21 & Q22		
		Accommodation	p. 59	p. 118/119: Q23 – Q25 p. 121: Q29		Simulate accommodation here
		Binocular/stereoscopic vision	p. 60	p. 120: Q26		Simulate the iris and ciliary body's working here
		Visual defects – myopia, hypermetropia, astigmatism and cataracts	p. 60 – 62	p. 120: Q27 & Q28		- One page summary: ENG & MEMO | AFR & MEMO - Simulate accommodation & eye defects here - Self-marking quiz on the eye here
		Human ear – position, external and internal structures	p. 62 –66			Ear model on paper here
		Functioning of the ear – How do we hear?	p. 66	p. 122: Q33		Watch this useful video on the mechanism of hearing
		Functioning of the ear – How is balance maintained?	p. 67 – 68	p. 122: Q31 & Q32		
		Hearing defects – deafness, middle ear infection	p. 68 – 69	p. 121: Q30 p. 123/124: Q34 – Q39	**PART 1**	- Watch this useful video on ear infections & grommets - Revise terms for this topic on p. 140 **Unit 3** & here ENG | AFR - One page summary: ENG & MEMO | AFR & MEMO - Find revision exercises on this topic here
WEEK 6 (½) & 7 *12 – 21 May* **Lesson Plan** **Lesplan**	**Human Endocrine System & Homeostasis** *8 school days* PAPER 1: 34 marks	Introduction – types of glands, hormones	p. 70	p. 124: Q1 & Q2		Watch this useful video on how our hormones work
		Endocrine glands – pituitary: TSH	p. 71			
		Endocrine glands – pituitary: growth hormone	p. 71 – 72			
		Endocrine glands – pituitary: FSH	p. 72			
		Endocrine glands – pituitary: LH	p. 72			
		Endocrine glands – pituitary: prolactin	p. 72			
		Endocrine glands – pituitary: ADH	p. 72	p. 128: Q16 & Q17		
		Endocrine glands – thyroid and over/under secretion	p. 72 – 73	p. 125: Q4; p. 127: Q14 p. 128: Q18 & Q19		- Case study on Endocrine system disorder here - Watch this useful video on the thyroid gland
		Endocrine glands – pancreas and glucose homeostasis	p. 74 – 76	p. 125: Q5 & Q6; p. 126: Q8 & Q9		Watch this useful video on the pancreas
		Endocrine glands – adrenal glands: aldosterone and adrenalin	p. 76 – 77	p. 126: Q7; p. 127: Q15		
		Endocrine glands – gonads: testosterone, oestrogen and progesterone	p. 77	p. 125: Q3; p. 127: Q10 & Q11		
		Differences between the nervous and endocrine systems	p. 78	p. 127: Q12 & Q13		- Revise terms for this topic on p. 142 **Unit 4** & here ENG | AFR - One page summary: ENG & MEMO | AFR & MEMO
		Homeostasis introduction	p. 78			Virtual activity – how systems interact to maintain homeostasis here
		Negative feedback	p. 79	p. 129: Q1		
		Control of CO_2 concentration in the blood	p. 80	p. 132: Q10		
		Regulation of water balance in the blood	p. 81			
		Regulation of salt concentration in the blood	p. 82	p. 131: Q7 – Q9		
		Thermoregulation in endothermic animals	p. 82 – 83			
		Human skin as thermoregulator	p. 84 – 86	p. 130: Q4		
		Regulation of body temperature on a cold day	p. 86 – 87			
		Regulation of body temperature on a warm day	p. 87 – 88	p. 129: Q2 & Q3 p. 130/131: Q5 & Q6 p. 132: Q11 & Q12	**PART 1**	- Revise terms for this topic on p. 143 **Unit 5** & here - Find revision exercises on this topic here - Self-marking quiz on endocrine system & homeostasis here

WEEK 8 *24 – 28 May* Lesson Plan Lesplan	**Responding to the environment: Plants** *5 school days* PAPER 1: 13 marks	Plant hormones	p. 88	**PART 1**		
		Auxins	p. 88			
		Functions of auxins	p. 89 – 90	p. 133: Q1 & Q3		
		Tropism – phototropism and geotropism	p. 90 – 91	p. 134: Q6 & Q7; p. 136: Q12; p. 137: Q15	Investigate auxins p. 92 (Prac)	
		Summary of phototropism experiments	p. 93	p. 133: Q2 & Q4; p. 134: Q5 p. 137: Q13 & Q14; p. 138: Q17		
		Gibberellins	p. 94		- Video: The amazing way plants defend themselves here	
		Abscisic acid	p. 94	p. 135: Q8 & Q10; p. 138: Q16	- Revise terms for this topic on p. 146 **Unit 6** & here ENG | AFR	
		The use of plant hormones in agriculture	p. 94 – 95	p. 135: Q9	- One page summary: ENG & MEMO | AFR & MEMO	
		Plant defence mechanisms	p. 95	p. 136: Q11	- Find revision exercises on this topic here - Self-marking quiz on plant hormones here	
WEEK 9 – 12 *31 May – 25 Jun*	**Time for June exams**				**Formal assessments: TASK 3 – Practical (min 30)** **TASK 4 – June Exam (150 marks)**	



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Strategies to assist with reduced teaching time in 2027:



- Be well prepared – every second counts!
- Prioritise the exam guideline content – make sure the basics are sound
- Provide links to self-marking quizzes so that learners can practice on their own
- Provide access to your own pre-recorded E-lessons where available
- Use **TAS** books (they are made to support independent learning!) and give work to cover/prepare over holidays
- Do not waste time marking ALL homework – ensure learners have access to the answers (😉 *The **A**nswer **S**eries* philosophy) and only work through problem areas
- Provide tutoring / intervention classes
- Ask the school for evening classes if possible (2 x 1 h sessions make a big difference!)
- Provide winter school sessions
- Give learners access to Telematics lessons to watch at their own pace

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		Based on TAS Gr 12 LS Part 1 & 2 Class Text & Study Guides				
WEEK 1 & 2 *20 – 30 Jul* Lesson Plan 1 Lesplan 1 Lesson Plan 2 Lesplan 2	Watch on YouTube **Evolution through Natural Selection** *9 school days* PAPER 2: 54 marks *(shared with human evolution)*	Evolution by natural selection introduction	p. 137			
		Evolution: hypothesis or theory?	p. 137	p. 199: Q2	- Explore misconceptions: the theory of evolution here - What is the difference between a theory and hypothesis? – video here	
		Evidence for evolution – fossil record	p. 138 – 139	p. 199: Q3 – Q5 + *self-marking* ***quiz***	- What is a fossil? Watch here - How to become a fossil? Watch here	
		Evidence for evolution – descent with modification	p. 139 – 141	p. 200: Q6		
		Evidence for evolution – biogeography	p. 141 – 142	p. 201: Q9	Watch here – continental drift and its evidence	
		Evidence for evolution – genetics	p. 142 – 143	p. 199: Q1; p. 200: Q7 & Q8; p. 201: Q10	Understand how genes are used to determine lineage here	
		Variation within a species – meiosis, mutations and reproduction	p. 144	NOTE: *Questions are suggested according to when learners will be able to do them.*	- Track the evolution of a fictional population and make conclusions here ; worksheet here (Prac) - Simulate natural selection here ; worksheet here (Prac) - Rock pocket mouse evolution worksheet here ; original resources here (Prac) and intro video here - Simulate evolution – peppered moth and worksheet here (Prac) - Simulation: Explore bunny selection and mutations here (Prac) - Activity: examine the fossil record with paper fossils here - Natural selection (Prac): ENG | AFR | MEMO	
		Types of variation – continuous and discontinuous	p. 144 – 145	p. 202: Q14		
		Theories of evolution – Lamarckism	p. 146 – 148	*self-marking* ***quiz***		
		Theories of evolution – Darwinism	p. 148 – 150	p. 201: Q11 – Q13; p. 208: Q32 p. 210: Q34 & 35 + *self-marking* ***quiz***		
		Punctuated equilibrium	p. 152	p. 202: Q15 & Q16 p. 205: Q23 + *self-marking* ***quiz***		
		Artificial selection	p. 153 – 155	p. 203/204: Q17 – Q20		
		Formation of a new species – geographic isolation	p. 155 – 159	p. 205: Q 22 & Q24	- How geographic speciation occurs – video here - One pager summary 1: ENG & MEMO | AFR & MEMO	
		Reproductive isolation mechanisms	p. 160 – 162	p. 206: Q25 & Q26 + *self-marking* ***quiz***	Learn about reproductive barriers with examples here	
		Evolution in present times	p. 162 – 165	p. 204: Q21 p. 207/208: Q27 – Q31 p. 209: Q33 **PART 2**	- Simulate bacterial mutagenesis and natural selection here; worksheet here - The beak of the finch video worksheet here - One page summary 2: ENG & MEMO | AFR & MEMO - Find revision exercises on this topic here - Self-marking quiz on evolution through natural selection here - Revise terms for this topic on p. 220 **Unit 1**	
WEEK 3 & 4 *2 – 13 Aug* Lesson Plan Lesplan	Watch on YouTube **Human Evolution** *9 school days* PAPER 2: 54 marks *(shared with evolution through natural selection)*	The place of humans in the animal kingdom	p. 166		- An amazing website with all you need to understand & teach human evolution: https://becominghuman.org/ - This is NOT what human evolution looks like here	
		Phylogenetic trees introduction	p. 167		- Understand phylogenetic trees interactive here	
		Hominid vs hominin	p. 167	p. 211: Q1 & Q2	- Create a lion phylogenetic tree here (Prac) - Self-marking quiz	
		Anatomical similarities between African apes and humans summary	p. 168		NOTE: *Not all shared resources are TAS creations – some are shared contributions from our Teacher WhatsApp group.*	
		Anatomical differences between African apes and humans summary	p. 169		Self-marking quiz	
		Evidence of common ancestors for living hominids – fossil evidence	p. 170 - 176		- Why do we walk upright? Video here - Why is cooking food important? Video here - Self-marking quiz	
		Summary of significant evolutionary trends	p. 177	p. 212: Q4; p. 214: Q9		
		Evidence of common ancestors for living hominids – genetic evidence	p. 178 – 179	p. 215: Q12	Explore the timeline of human evolution here	
		Evidence of common ancestors for living hominids – cultural evidence	p. 179 – 181	p. 214: Q8	Self-marking quiz	

WEEK 3 & 4 *2 – 13 Aug*	**Human Evolution** *(continued)*	Major phases in the hominid evolution introduction	p. 181		- Explore the interactive documentary 'Becoming Human' that tells the story of our origins here - Take a walk through the human evolutionary tree here	
		Analysing and interpreting a phylogenetic tree	p. 182		Understand and interpret tree diagrams in this video	
		Genus: *Ardipithecus*	p. 183		Beautiful and detailed reconstructions of the different fossils related to human evolution here	
		Genus: *Australopithecus*	p. 183 – 186			
		Genus: *Homo*	p. 187 – 189	p. 211: Q3; p. 214: Q10; p. 217: Q17		
		Out of Africa hypothesis	p. 190			
		Out of Africa hypothesis – genetic links as evidence	p. 190 – 191			
		Out of Africa hypothesis – fossils as evidence	p. 191	p. 213: Q7p. 215: Q11; p. 217: Q16	- Great animation of hominin evolution and migration here - Video: Facts about human evolution here	
		Fossil sites in Africa – Great Rift Valley and Cradle of Humankind	p. 192 – 194	p. 212: Q5; p. 216: Q14 & Q15; p. 218: Q18		
		Evolutionary trends in hominins	p. 195			
		Fossil dating	p. 195		How to date fossils – watch here	
		Summary of hominins	p. 196 – 197	p. 213: Q6; p. 216: Q13; p. 219: Q19 & Q20	- Find revision exercises on this topic here - One pager summary: ENG & MEMO | AFR & MEMO - Self-marking quiz on human evolution here - Revise terms for this topic on p. 221 **Unit 2**	
		Alternatives to evolution (not in ATP)	p. 198	**PART 2**		
WEEK 5 *16 – 20 Aug*	**Time for consolidation and revision**				**Formal assessments:** **TASK 5 – Assignment (min 50) Example ENG | AFR | MEMO**	
WEEK 6 – 10 *23 Aug – 22 Sept*	**TASK 6 – Trial Examination (Paper 1 x 150 marks & Paper 2 x 150 marks)**					

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PROVINCIAL REVISION RESOURCES

WESTERN CAPE	EASTERN CAPE	GAUTENG	MPUMALANGA
Paper 1 Survival Kit Revision Vraestel 1 Oorlewingspakket Paper 2 Survival Kit Revision Vraestel 2 Oorlewingspakket	2024 Aim to Pass Paper 1 & Memo 2024 Aim to Pass Paper 2 & Memo	Paper 1 Revision Programme Slides Paper 2 Revision Programme Slides	2024 Walk into exam revision Paper 1 & Memo 2026 Walk into exam revision Paper 1 & Memo 2024 Walk into exam revision Paper 2 & Memo

TAS REVISION RESOURCES – Diagnostic Report Teaching & Learning Tool

2022	2023	2024	2025
Paper 1 Paper 2	Paper 1 Paper 2	Paper 1 Paper 2 Watch on YouTube	Paper 1 Paper 2

The Diagnostic Report Teaching and Learning Tool is an **all-in-one tool** that **combines** the November NSC **Papers, Memoranda and** the **annual Diagnostic Report's commentary** to create a comprehensive learning experience, ensuring that learners and teachers learn from the common mistakes made during the previous year's NSC examinations.



THE ANSWER SERIES

NSC November Exam Paper 1	150 marks; 2 ½ hours
Reproduction in Vertebrates	8 marks
Huma Reproduction	41 marks
Responding to the environment (humans)	54 marks
Responding to the environment (plants)	13 marks
Endocrine system and Homeostasis	34 marks

NSC November Exam Paper 2	150 marks; 2 ½ hours
DNA: Code of life	27 marks
Meiosis	21 marks
Genetics and Inheritance	48 marks
Evolution: Natural Selection and Human	54 marks