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ACADEMIC WEEKS	CAPS TOPIC	CORE CONTENT & PAGE NUMBERS <i>Based on TAS Gr 12 LS Part 1 & 2 Class Text & Study Guides</i>		SUGGESTED EXERCISES <i>From TAS Gr 12 LS Part 1 & 2 Class Text & Study Guides</i>	POSSIBLE PRACTICAL TASKS / CONSOLIDATION	DATE CONTENT WAS COMPLETED
WEEK 1 15 – 17 Jan	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 structure	p. 4 – 6	p. 85: Q4 & 5; p. 86: Q6	- DNA extraction p. 9 (Practical)	
		DNA function	p. 8		- Watch this useful video on DNA extraction	
		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: Q11 – 14; p. 89: Q15	- Read and interpret different DNA profiles (Practical)	
		RNA location	p. 13		- Watch this useful video on DNA profiling	
		RNA structure	p. 13		- Interactive gel electrophoresis lab here	
		RNA function	p. 14	p. 86: Q7; p. 87: Q8 & 9	- Watch useful videos: proteins ; transcription ; translation	
		Protein synthesis	p. 15 – 18	p. 89: Q16; p. 90: Q17 & 18	- Revise main concepts using this document: ENG / AFR	
WEEK 2 20 – 24 Jan		Gene mutations	p. 8 & 18 – 20	p. 91: Q19 – 21	- Self-marking quiz on DNA and RNA here	
WEEK 3 27 – 31 Jan					- Find revision exercises on this topic here	
					- Revise terms for this topic on p. 113 Unit 1	
WEEK 4 3 – 7 Feb	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 – 4; 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 & 12	Practical: identify phases of Meiosis	
		Importance of Meiosis	p. 33 – 34	p. 93: Q6 & 7; p. 98: Q19	- Revise main concepts using this document: ENG / AFR	
		Abnormal Meiosis	p. 35 – 36	p. 96: Q15; p. 97: Q16 – 18	- Self-marking quiz on Meiosis here	
WEEK 5 10 – 14 Feb		Comparison between Mitosis and Meiosis	p. 32 & 36 – 38	p. 94: Q8 – 10	- Find revision exercises on this topic here	
					- Revise terms for this topic on p. 113 Unit 2	
WEEK 6 17 – 21 Feb	Reproduction in Vertebrates 5 school days PAPER 1: 8 marks	External and internal fertilisation	p. 2 – 3	p. 96: Q1 & 2	Watch this useful video on ovi-, ovovivi- and vivipary	
		Ovipary, ovovivipary and vivipary	p. 4 – 5	p. 96: Q3	Watch this useful video on the amniotic egg	
		Amniotic egg	p. 5 – 6	p. 96: Q4; p. 98: Q9	Watch this useful video on precocial and altricial dev.	
		Precocial and altricial development	p. 6 – 8	p. 96: Q5; p. 97: Q6	Revise terms for this topic on p. 139 Unit 1	
		Parental care	p. 8 – 9	p. 97: Q7 & 8; p. 98: Q10		
WEEK 7 24 – 28 Feb	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 & 3; p. 107: Q23	Study and identify different cells and tissues in the human reproductive system (Practical)	
		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 videos: 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: Q11; p. 103: 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 – 29	Watch this interesting video on pregnancy	
		Birth	p. 28 – 29	p. 104: Q16; p. 105: Q18 – 20	- Self-marking quiz on reproduction in vertebrates here	
WEEK 8 3 – 7 March		Contraception	p. 30 – 32	p. 100: Q4; p. 106: Q21 & 22; p. 108: 25 – 26	- Find revision exercises on this topic here	
WEEK 9 10 – 14 March					- Revise terms for this topic on p. 139 Unit 2	

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

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

WEEK 10 17 – 20 March	Genetics & Inheritance 9 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	
WEEK 11 24 – 28 March		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	- One page summary: ENG & MEMO ; AFR - Co-dominance worksheet practice on cows here	
		Multiple alleles and blood groups	p. 54 – 55	p. 102: Q14 & Q15; p. 103: Q16		
		Polygenic characteristics (not in ATP)	p. 55	p. 102: Q12 & Q13		
		Dihybrid crosses	p. 55 –59	p. 103: Q18; p. 104: Q19 – Q21; p. 105: Q22 & 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: Q26 & Q27; p. 107: Q28	- 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 - Interactively breed pigeons based on their genetic traits - Build a bird activity (Prac)		

Formal assessments: TASK 1 **Practical** (min 30) & TASK 2: Test (min 50)

Formal assessments: TASK 1 [Practical](#) (min 30) & TASK 2: Test (min 50)

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Ideas for possible practicals are highlighted.



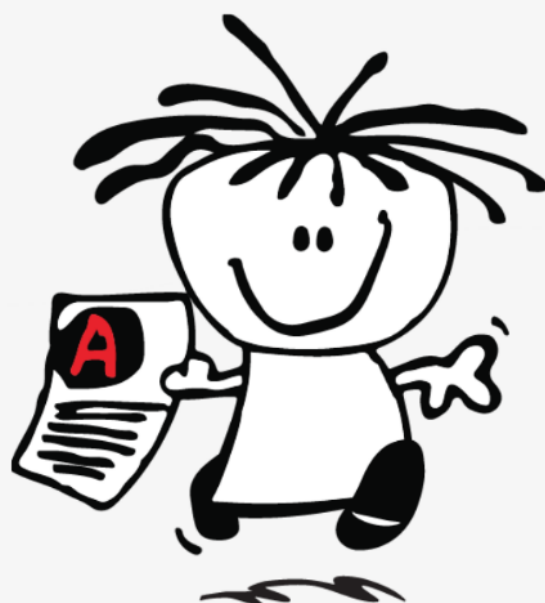
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WEEK 1 8 – 11 Apr	Genetics & inheritance 8 school days	Genetic pedigrees – analyse a pedigree diagram	p. 64 – 65	p. 99: Q5 & Q6; p. 100: Q7	- Watch this useful video on analysing a pedigree diagram on complete dominance: AFR / ENG	
		Complete dominance				
		Genetic pedigrees – analyse a pedigree diagram	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	
		X-linked recessive disorder				
		Genetic pedigrees – analyse a pedigree diagram	p. 68	p. 107: Q30	- Toothpick fish genetics: ENG & MEMO ; AFR & MEMO (Prac)	
		X-linked dominant disorder			- 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	
WEEK 2 14 – 17 Apr	PAPER 2: 48 marks	Beneficial, harmless and harmful mutations	p. 69 – 70	p. 108: Q31	- Mutate a gene in real time (virtually) here	
		Albinism	p. 70 – 71	p. 109: Q32; p. 109: 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	
WEEK 3 22 – 25 Apr	Responding to the environment (Humans) 14 school days	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	
		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: Q6 & Q7; p. 113: 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)	
		Disorder of the nervous system – Alzheimer's	p. 48	p. 115: Q13	- One page summary: ENG & MEMO ; AFR & MEMO	
WEEK 4 5 – 9 May	PAPER 1: 54 marks	Disorder of the nervous system – Multiple sclerosis	p. 49		Class activity – A case study on Alzheimer's disease	
		Injuries to the nervous system – brain damage	p. 50			
		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: Q15; p. 116: Q16	- Revise terms for this topic here ENG/AFR	
					- Reaction time practical (Prac): ENG ; AFR & MEMO	
					- Self-marking quiz on the nervous system here	

WEEK 5 12 – 16 May		Human eye – position, external and internal structures	p. 54 – 57	p. 116: Q18; p. 117: Q19 & Q20	Eye model on paper here			
		Pupillary mechanism	p. 58	p. 117: Q21; p. 118: Q22				
		Accommodation	p. 59	p. 118: Q23 & Q24; p. 119: Q25; p. 121: Q29	- See how the eye’s ability to focus changes with age here (Prac) - 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: Q34 – Q37; p. 124: Q38 & Q39	- 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 19 – 23 May	Human Endocrine System & Homeostasis 10 school days	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; p. 128: 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			
		WEEK 7 26 – 30 May	PAPER 1: 34 marks	Homeostasis introduction	p. 78		See how different systems interact to maintain homeostasis in this virtual activity	
				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: Q5; p. 131: Q6; p. 132: Q11 & Q12	- 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 – 11 2 – 27 June	Time for June exams			Formal assessments: TASK 3 Practical (min 30) & TASK 4: June Exam (150 marks)				

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Ideas for possible practicals are highlighted.





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WEEK 1 22 – 25 Jul	Responding to the environment: Plants 4 school days PAPER 1: 13 marks	Plant hormones	p. 88		NOTE Not all shared resources are TAS creations – some are shared contributions from our Teacher WhatsApp group.	
		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		Practical: Investigate auxins p. 92
		Summary of phototropism experiments	p. 93	p. 133: Q2 & Q4, p. 134: Q5, p. 137: Q13 & Q14, p. 138: Q17		
		Gibberellins	p. 94			
		Absciscic acid	p. 94	p. 135: Q8 & Q10, p. 138: Q16		- Video: The amazing way plants defend themselves here
		The use of plant hormones in agriculture	p. 94 – 95	p. 135: Q9		- Revise terms for this topic on p. 146 Unit 6 & here ENG/AFR
		Plant defence mechanisms	p. 95	p. 136: Q11		- One page summary: ENG & MEMO ; AFR & MEMO - Find revision exercises on this topic here - Self-marking quiz on plant hormones here
WEEK 2 28 Jul – 1 Aug	Watch on YouTube Evolution through Natural Selection 10 school days	Evolution by natural selection introduction	p. 137		NOTE Questions are suggested according to when learners will be able to do them.	
		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, Q4 & Q5 + <i>self-marking quiz</i>		- 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			- Track the evolution of a fictional population and make conclusions here ; worksheet here (Prac)
		Types of variation – continuous and discontinuous	p. 144 – 145	p. 202: Q14		- Simulate natural selection here ; worksheet here (Prac) - Rock pocket mouse evolution worksheet here ; original resources here (Prac) and intro video here
		Theories of evolution – Lamarckism	p. 146 – 148	<i>self-marking quiz</i>		- Simulate the evolution of the peppered moth and worksheet here (Prac)
		Theories of evolution – Darwinism	p. 148 – 150	p. 201: Q11, Q12 & Q13, p. 208: Q32, p. 210: Q34 & 35 + <i>self-marking quiz</i>		- Simulation: Explore bunny selection and mutations here (Prac)
WEEK 3 4 – 8 Aug	PAPER 2: 54 marks <i>(shared with human evolution)</i>	Punctuated equilibrium	p. 152	p. 202: Q15 & Q16, p. 205: Q23 + <i>self-marking quiz</i>		- Activity: examine the fossil record with paper fossils here - Natural selection (Prac): ENG , AFR & MEMO
		Artificial selection	p. 153 – 155	p. 203: Q17, Q18 & Q19, p. 204: 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 + <i>self-marking quiz</i>		Learn about reproductive barriers with examples here
		Evolution in present times	p. 162 – 165	p. 204: Q21, p. 207: Q27, Q28 & Q29, p. 208: Q 30 & Q31 p. 209: Q33		- 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 4 11 – 15 Aug	 Watch on YouTube Human Evolution 10 school days PAPER 2: 54 marks (shared with human evolution)	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 - Create a lion phylogenetic tree here (Prac) - Self-marking quiz	
		Hominid vs hominin	p. 167	p. 211: Q1 & Q2		
		Anatomical similarities between African apes and humans summary	p. 168			
		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	
		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: <i>Ardipithecus</i>	p. 183		Beautiful and detailed reconstructions of the different fossils related to human evolution here	
		Genus: <i>Australopithecus</i>	p. 183 – 186			
		Genus: <i>Homo</i>	p. 187 – 189	p. 211: Q3, p. 214: Q10, p. 217: Q17		
WEEK 5 18 – 22 Aug		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: Q7, p. 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 - Evolution test bank questions ENG & 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			
WEEK 6 25 – 29 Aug	Time for consolidation and revision				Formal assessments: TASK 5: Assignment (min 50) – Example ENG & MEMO	
WEEK 7 – 11 1 Sept – 3 Oct	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 2024 Walk into exam revision Paper 2 & Memo

TAS REVISION RESOURCES – Diagnostic Report Teaching & Learning Tool

2022	2023	2024
Paper 1 Paper 2	Paper 1 Paper 2	Paper 1 Paper 2



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