

2025 ANNUAL TEACHING PLAN: LIFE SCIENCES:

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		: LIFE SCIENCES;	DE 44		GRADE 11Pag		005			REPUBLIC OF 3C	OTTATRICA
TERM 1	Week 1	E SCIENCES: GRAI Week 2	Week 3	Week 4	TERM 1: 15 January Week 5	Week 6	025 Week 7	Week 8	Week 9	Week 10	Week
	15–17 Jan (3)	20–24 Jan (5)	27–31Jan (5)	03-07 Feb	10–14 Feb (5)	17–21 Feb		03-07 March (5)		17–20 March (4)	11
(== ::::, =,	(0)	(0)	(0)	(5)	(0)	(5)		(0)	(0)	. ,	24-28
											March (5)
CAPS	ORIENTATION	BIODIVERSITY	AND CLASSIFIC	CATION OF	BIODIVERSITY	OF PLANTS (	CAPS p 40)	BIODIVERS	SITY OF ANIMALS (	CAPS p 41)	
Topics	- D !!		RGANISMS (CAP		One union at all	Assural	Flamera	The company of		=Th	
	☐ Baseline	Micro-	Symbiotic	Immunity,	Grouping of Bryophytes and	Asexual and sexual	Flowers as reproductive	The concept of a phylum.	□Use <b>simple</b> <b>diagrams</b> to	□The role of invertebrates	
	assessment	organisms:	relationships	including	Pteridophytes	reproducti	structures	□Relationship	identify an	in agriculture	
	based on	□basic structure	of bacteria	plants and	Grouping of	on, □name	□Adaptations	between body	example of each	and	
	Grade 10	and general	such as	animals'	Gymnosperms and	advantage	for pollination	plan and	phylum	ecosystems	
	topics needed	characteristics	nitrogen fixing	immune	Angiosperms	s and	through (different	grouping of	comparative	(e.g.,	
	for Term 1, e.g.	of the following	bacteria in	responses of	□Use <b>simple</b>	disadvanta	pollinators) wind,	animals in	table to	pollination,	
	classification	groups	plants and E.	against the	diagrams to identify	ges of	insects and birds	phyla.	demonstrate the	decomposition,	
	schemes, the	- Viruses	Coli in the	infecting	an example of each	each.	(South African	□Six animal	following in the	soil aeration	
	nitrogen cycle.	- Bacteria	human	micro-	group and a comparative table to		examples only) differences and	Phyla: -Porifera,	six phyla: □ <b>Key features</b> in	etc.)	
60	☐ Revise	- Protista	intestine	organisms.	demonstrate the		similarities	-Cnidaria,	respect of body		
ne	scientific	- Fungi	☐The effect	☐The use of	presence/absence of		ommanii oo	- Officialia,	plans:		
/al	skills.	☐The <b>roles</b> that	and	drugs e.g.	following in the four			Platyhelminthes,	- symmetry and		
ē		these groups	management	antibiotics;	groups:			-Annelida,	cephalisation;		
Core Concepts, Skills and Values		play in maintaining	of <b>one</b>	effect on	- Vascular tissue			-Arthropoda	- the number of		
		balance in the	disease from	micro-	(xylem and phloem)			-Chordata	tissue layers		
×		environment and	each of the	organisms,	- True leaves and roots				developed from		
ts,		web of life	four groups:	vaccinations	- Seeds or spores				embryo; - the number of		
e e			- Viruses	(discuss	- Fruit.				openings in the		
) ou			(rabies,	briefly)	- Decreasing				gut;		
ပိ			HIV/AIDS,	☐The use of	dependence on water				- coelom and		
ore			influenza)	micro-	for reproduction from				blood systems.		
ŭ			-Bacteria	organisms to	Bryophytes to						
			(blight,	produce	Angiosperm						
			cholera,	medicines							
			tuberculosis,	(e.g. insulin							
			anthrax)	and							
			- Protists	antibiotics).							
			(malaria)	□Traditional							
			-Fungi (rust,	technology to							
			thrush,	produce, e.g.							
			ringworm,	beer, wine							
			athlete's foot)	and cheese.							
Pre-	BIODIVERSITY,	CLASSIFICATION 8	& ECOSYSTEMS	GRADE 10							
Knowledge			T		A .1.1. A						
v		Activity 1	Activity 2	Activity 4	Activity 6	Activity 8		Activity 9	Activity 10	Activity 11	
tie		Table on micro- organisms:	Symbiotic relationships	Immunity, vaccinations	Phylogenetic trees and cladograms	Table indicating		Calculate	Construct a comparative	The role of invertebrates	
ţį		names, basic	of nitrogen	using articles	showing the	the		approximate	table of these	in agriculture	
ac		structures,	fixing bacteria	Activity 5	evolutionary history of	differences		surface area to	four key	and	
Daily activities		characteristics	in plants and	Effect of	the four plant groups	between		volume ratios of	features in the	ecosystems	
Da		and diagrams.	<i>E.coli</i> in the	antibiotics on	and major structural	asexual and		selected	six selected		
				micro-		sexual		examples of	phyla and		

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		: LIFE SCIENCES;			GRADE TIPAÇ						
TERM 1 (52 days)	Week 1 15–17 Jan (3)	Week 2 20–24 Jan (5)	Week 3 27–31Jan (5)	Week 4 03-07 Feb (5)	Week 5 10–14 Feb (5)	Week 6 17–21 Feb (5)	Week 7 24–28 Feb (5)	Week 8 03–07 March (5)	Week 9 10–14 March (5)	Week 10 17–20 March (4)	Week 11 24–28 March (5)
CAPS	ORIENTATION	BIODIVERSITY	AND CLASSIFIC	CATION OF	BIODIVERSITY	OF PLANTS (	CAPS p 40)	BIODIVERS	SITY OF ANIMALS (	CAPS p 41)	maron (o)
Topics			GANISMS (CAP			(	· · · · · · · · · · · · · · · · · ·		(	· · · · · · · · · · · · · · · · · ·	
Topics		MICROOK	human intestine.  Activity 3 A table of ONE disease from each group indicating effect and management	organisms; use of micro- organisms to produce medicine; traditional technology to produce e.g. beer, wine and cheese.	changes in their history of development Activity 7 Table indicating the differences between Bryophytes, Pteridophytes, Gymnosperms and Angiosperms in terms of vascular tissue, leaves and roots, seeds or spores and fruit also including drawings of the macroscopic parts: - Bryophytes: moss plant - Pteridophytes: rhizome, frond with sori - Gymnosperms: needles, cones and seeds; and - Angiosperms: flower, fruit and seeds.	reproduction showing advantages and disadvantages.		different animals of the six phyla.	indicate the mode of living of each phyla. Include as many diagrams or pictures as possible.		
Investigations/Experiments		INVESTIGATION 1 Growing cultures on agar plates, or bread mould (fungus) on bread.			Truit and seeds.		INVESTIGATION 2 Dissect an example of each of the following types of flowers: - wind pollinated - insect pollinated - bird pollinated Record observations in a comparative table.		INVESTIGATION 3 Select one phylum and design a poster to show diversity in that phylum in South Africa.		
Informal		Baseline test		Informal			Informal Test 2				
Tests	TACK 4. Decet	22 Jan 2025	20	Test 1							
SBA (Formal Assm)		cal (minimum mark Il Test (minimum ma									
Date											
completed								]	]		



## 2025 ANNUAL TEACHING PLAN: LIFE SCIENCES; ANNUAL TEACHING PLAN: LIFE SCIENCES: GRADE 11

## GRADE 11Page 3 of 7 TERM 2: 8 April 2024 to 27 June 2025

Term 2 (51 days)	Week 1 8-11 April (4)	Week 2 14-17 April (4)	Week 3 22-25 April (4)	Week 4 5-9 May (5)	Week 5 12-16 May (5)	Week 6 19-23 May (5)	Week 7 26-30 May (5)	Week 8 2-6 June (5)	Week 9-11 9-27 June (14)
CAPS Topics	ORIENTATION	PHOTOSYNTHES	SIS (CAPS p 42)	CELLULAR RESPIR	RATION (CAPS p 45)	ANIMAL N	JTRITION (CAPS p 43) (	5 days)	
Core Concepts, Skills and Values	□Revise basic cell structure with focus on the chloroplast, leaf structure, mitochondria and plant and animal tissues from grade 9 and grade 10. □Revise basic photosynthesis and respiration from grade 8	□Process of photosynthesis using words and symbols: The intake of raw materials, trapping and storing of energy, formation of food in chloroplasts and its storage. The release of oxygen. Mention only of light and dark phase (no biochemical details of light and dark phases are required). □Importance of photosynthesis: -release of oxygen, -uptake of carbon dioxide from atmosphere, -food production (trapping energy)	□ Effects of variable amounts of light, carbon dioxide and temperature on the rate of photosynthesis □ Improve crop yields in greenhouse systems, role of ATP as energy carrier in the cell. □ ONE investigation to explain the principles of the Scientific process: Light is necessary for photosynthesis (Infuse investigation throughout the topic)	□Process of respiration □Aerobic respiration: in cytoplasm and mitochondria; use words and symbols: glycolysis, Krebs cycle and oxidative phosphorylation (no biological detail is required)	□Anaerobic respiration Production of lactic acid in muscles during exercise; word and symbols (no biochemical detail of process is required) □The role of anaerobic respiration in the industry, e.g. beer brewing and bread making. □Comparison between aerobic and anaerobic respiration □TWO investigations to explain the principles of the Scientific process: □O₂ is required by respiration, □CO₂ is produced by living organisms during respiration (infuse investigations throughout the topic	□The differences in dentition for herbivorous, carnivorous and omnivorous lifestyles in terms of nutritional requirements and energy relationships (link with ecology – food chains) □Human nutrition The macrostructure of the alimentary canal and associated organs and the functions of the different parts	□The process of ingestion, digestion, digestion, assimilation and egestion and the significance of each: □Mechanical or physical digestion: types and functions of different kinds of teeth, processes of chewing. Peristalsis □Chemical digestion: Enzymes: functions of carbohydrase, proteases and lipases: where produced; substrate, pH and end-products (Specific enzymes need not be named – link to enzyme activity) □Absorption: small intestine as a region of most absorption of digested food; adaptations to increase surface area. Structure (to tissue level) and significance of villi. □Importance of hepatic portal system in the transport of absorbed food to the liver and then through hepatic vein to the rest of the body.	□Assimilation: incorporation of glucose and amino acids, and the breakdown of alcohol, drugs and hormones. □Egestion □Homeostatic control, which involves the hormonal control of blood sugar levels	JUNE EXAMINATION
Pre- Knowledge	CELL STF	RUCTURE: CHLOROPLA	STS & LEAF STRUCT	URE GR 10		HUMAN SYSTEMS GR 9			





Term 2 (51 days)	Week 1 8-11 April (4)	Week 2 14-17 April (4)	Week 3 22-25 April (4)	Week 4 5-9 May (5)	Week 5 12-16 May (5)	Week 6 19-23 May (5)	Week 7 26-30 May (5)	Week 8 2-6 June (5)	Week 9-11 9-27 June (14)
CAPS Topics	ORIENTATION	PHOTOSYNTHES		CELLULAR RESPIR			JTRITION (CAPS p 43) (		
Daily activities	Activity 12 Use a diagram of a leaf and provide labels. Indicate the functions.	Activity 13 Use a diagram of a plant indicating the intake of raw materials, trapping and storing of energy, formation of food in chloroplasts and its storage and the release of oxygen.  Activity 14 Draw a diagram of chloroplast. Indicate the location in the chloroplast where the light and dark phase take place.	Activity 15 Use graphs to show effects of variable amounts of light, carbon dioxide and temperature on the rate of photosynthesis. Activity 16 Case study on the role of carbon enrichment, optimum light and optimum temperatures in greenhouse systems to improve crop yield.	Activity 17 Diagram of a cell with cytoplasm and mitochondria. Use words and symbols indicating glycolysis, Krebs cycle and oxidative phosphorylation Activity 18 The process of anaerobic respiration and the role it plays in the food industry. (Suggest as an investigation)	Activity 18 The process of anaerobic respiration and the role it plays in the food industry. (Suggest as an investigation)	Activity 19 Table with the differences in dentition for herbivores, carnivores and omnivores' lifestyles in terms of nutritional requirements and energy relationships with diagrams.	Activity 20 Diagram of the human digestive system with labels and functions of each part. Include mechanical and chemical digestion. Activity 21 Diagram of small intestine and villi to show adaptations for absorption of digested food.	Activity 22 Diagram of hepatic portal system explaining assimilation of products of digestion and breakdown of relevant substances. Activity 23 Schematic representation of the control of blood sugar levels	
Investigations/Experiments			INVESTIGATION 4 Basic scientific investigation skills with demonstrations or data interpretation on: Investigate photosynthesis by showing that light is necessary for photosynthesis.	INVESTIGATION 5 Basic scientific investigation skills with demonstrations or data interpretation on: Investigate respiration by showing that O2 is required by living organisms during respiration INVESTIGATION 6 Explain the principles of the Scientific process: CO2 is produced by living organisms during respiration	INVESTIGATION 6 Explain the principles of the Scientific process: CO2 is produced by living organisms during respiration	INVESTIGATION 7 Obtain intestines of a sheep from a butcher and trace the passage that food will take. Cut open the stomach, portion of the small intestine and a portion of the large intestine to compare the structure of the wall in each.			
Informal Tests			Informal test 3	Informal test 4					
SBA (Formal Assessment)		ent (minimum mark = 50 mination (150 marks)	marks)						
Date completed									



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TERM 3: 22 July to 3 October 2025

ANNOAL IL		AN. LIFE SCIENCE				to 3 October 2025					
Term 3 52	Week 1 22–25 July (4)	Week 2 28 July-1 Aug (5)	Week 3 04-08 Aug (5)	Week 4 11-15 Aug (5)	Week 5 18-22 Aug (4)	Week 6 25-29 Aug (5)	Week 7 01–05 Sept (5	Week 8 8-12 Sept (5)	Week 9 15-19 Sept (5)	Week 10 22-26 Sept (4)	Week11 29 Sept-3 Oct (5)
CAPS Topics	ORIENT ATION	GASEO	JS EXCHANGE (CAPS p 46	5)	EXCRETION IN HUMANS (CAPS p 48) POPULATION ECOLOGY (CAPS p 49)		POPULATION ECOLOGY (CAPS		p 49)		
Core Concepts, Skills and Values	Revise relevant body systems from Grade 9 and ecology from Grade 8	Gaseous exchange Distinguish between cellular respiration, breathing and gas exchange. Requirements of efficient gas exchange organs: -Large surface area -Thin -Moist -Well ventilated -Protected -Transport system	Human gas exchange:  □The structure (macro and tissue level), location, adaptations and functioning of the ventilation system: trachea, epiglottis, bronchi, bronchioles, lungs, ribs, intercostal muscles, diaphragm, alveoli  □Ventilation of the lungs: -Gaseous exchange in alveoli; -The transport of gases around the body; -Gaseous exchange in tissues; -Composition of inspired air vs. expired air – analyse data.	□Homeo static control of breathin g. (Links with Grade 12)	Excretion in various organs: □Brief role of the following: -lungs; -kidneys -bladder; -liver; -alimentary canal (gut); -skin. □Substances secreted by each and the origins of these substances	Urinary system  □The structure of the:  -Urinary system: position of kidneys, ureters, bladder, urethra.  -Kidney: structure and functioning, removal of urea and excess water and salts, reabsorption of glucose and some salts.  -Nephron: structure and functioning: ultrafiltration, reabsorption, tubular excretion, pH control, formation of urine	Homeost atic control of water and salts: role of ADH and aldostero ne. (Links with Grade 12)	Population size □influenced by: -Immigration, -emigration, -mortality, -natality, -fluctuations □limiting factors carry capacity. □Logistic and geometric growth curves with phases.	Interactions in the environment:    Predation: two South African examples of predator-prey relationships: graphs   Competition: - Interspecific: for light, space, water, shelter and food; -Intraspecific: for food, access to mates, water, space, and shelter; survival is determined by access to the above, ecological niches.   Specialisation: competitive exclusion and resource partitioning; discuss one example of co-existence in animals and one example in plants;   Parasitism: two examples from South Africa; one species benefits   Mutualism: two examples from South Africa; both species benefit;   Commensalism: two examples from South Africa; one South Africa; Doth Species benefit;   Commensalism: two examples from South Africa	Human Population  Reasons for exponential growth: -Age and gender distributions for different countries including South Africa; -Forecast of South Africa's population growth over the next twenty years and predict possible consequenc es for the environmen t.	Consolidation & revision
Pre- Knowled ge		HUMAN SYSTE	MS GR 9 & LUNGS & PULN SYSTEM GR 10	MONARY	HUMAN	N SYSTEMS GR 9			Allica	ECOSYST EMS GR 10	
Daily activities		Activity 24 Tabulate the differences between cellular respiration, breathing and gas exchange.	Activity 26 Diagram of the human breathing system with labels and functions. Including ventilation of lungs.	Activity 28 Homeos tatic control of breathin g	Activity 29 Tabulate various excretory organs and their secretions and excretions. Include the substances secreted and their	Activity 30 Diagram of the urinary system of the human with labels and functions.	Activity 33 Homeost atic control of water and salts: role of ADH	Activity 34 Case study: Rationale for culling, e.g. elephants in the Kruger National Park as an example of an	Activity 35 Population size including graphs on logistic and geometric growth.	Activity 38 Human population	

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Term 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week11
52	22–25 July (4)	28 July-1 Aug (5)	04-08 Aug (5)	11-15 Aug (5)	18-22 Aug (4)	25-29 Aug (5)	01-05 Sept (5	8-12 Sept (5)	15-19 Sept (5)	22-26 Sept (4)	29 Sept-3 Oct (5)
CAPS Topics	ORIENT ATION			EXCRETION IN HUMANS (CAPS p 48)			POPULATION ECOLOGY (CAPS p 49)				
		Activity 25 Requirements of efficient gas exchange organs	Activity 27 Analyse and interpret data showing the effects of altitude on the number of red blood cells and the consequent effect on athletes at different altitudes		origin where applicable.	Activity 31 Longitudinal section through the kidney. Label and functions Activity 32 Diagram of nephron with labels and functions. Use arrows to indicate the direction of urine production.	and aldostero ne.	application of estimating population size	Activity 36 Tabulate interactions in the environment Activity 37 Draw a life cycle of the bilharzia parasite or tapeworm (simplify larval stages).		
Investigations/ Experiments			INVESTIGATION 8 Observe and investigate the structure of the lungs, diaphragm, associated pulmonary blood vessels and the heart of a pig or a sheep obtained from a butcher. INVESTIGATION 9 Construct a model of the human breathing system. Explain the limitations of the model. □Demonstrate that expired air contains carbon dioxide.	INVESTI GATION 10 Measure and compare the depth of breathin g of two or more learners and the effect of exercise on breathin g/pulse rate. Interpret data on depth and rate of breathin g.	INVESTIGATION 11:  □Dissection of a sheep's/pig's kidney.  □Use a worksheet to identify capsule, cortex, medulla, pyramids, blood vessels, pelvis, ureter and hilum.  □Draw and label the dissected kidney.			INVESTIGATIO N 12:  Determine the size of a population by quadrant or simple sampling e.g.simulated mark/recapture.  Collect and record data  Interpret data  Calculate/esti mate the population size.			
Informal Tests				Informal Test 5			Informal Test 6				
SBA Formal Assessm ent		ractical (minimum formal Test (minim	mark = 30 marks) um mark = 50 marks)	10000		1	100.0		1		
Date complete d											



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TERM 4: 13 October – 10	December 2025
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NNUAL TEACHING PLAN: LIFE SCIENCES: GRADE 11 TERM 4: 13 October – 10 December 2025									
TERM 4	Week 1	Week 2	Week 3		Week 4	Week 5 - 9			
(43 days)	13 - 17 October 2025	20 – 24 October 2025	27 - 31 October 2025	03	- 07 Nov 2025	10 Nov – 10 December 2025			
(10)	(5 days)	(5 days)	(5 days)		(5 days)	(23 days)			
CAPS Topics	(5 22)		ON THE ENVIRONMENT (CAPS)	n 51)	(0 44) 0)	(=0 00)0)			
OAI O TOPIOS	□Causes and	Water	□Loss of Biodiversity (the	J 0 1)		THE SPITE PROPERTY.			
	consequences of	□Availability:	sixth extinction)		FINAL	EXAMINATION (Two papers)			
			,						
	the following	-Construction of dams	-Habitat destruction: farming			PAPER 1			
	(relate to	-Destruction of wetlands	methods, e.g. overgrazing		Marks: 150	1711 =111			
	conditions and	-Poor farming practices	and monoculture, golf		Time: 2 ½ hours				
	circumstances in	-Droughts and floods	estates, mining, urbanisation,		711101 2 72 110410				
	South Africa):	-Exotic plantations and depletion of water table	deforestation; loss of		Topics and marks:				
Ø	The atmosphere	-Boreholes and effects on aquifers	wetlands and grasslands;		Photosynthesis – 32				
ne ne	and climate	-Wastage	-Poaching, e.g. for rhino horn,		Animal nutrition – 32				
<u> </u>	change	-Cost of water	ivory and' bush meat';		Respiration – 22				
2	-Carbon dioxide	□Quality:	-Alien plant invasions: control		Gaseous exchange - 3	32			
Ĕ	emissions;	-Water for domestic use, industry, agriculture and mining:	using mechanical, chemical		Excretion - 32				
S C	-Concept of	pollution, diseases, eutrophication and algal bloom	and biological methods; and	L					
≣	'carbon footprint'	-The effect of mining on quality of water	-Indigenous knowledge						
Ř	and the need to	-Thermal pollution	systems and the sustainable			PAPER 2			
ý.	reduce the carbon	-The need for water purification and recycling	use of the environment e.g.		Marks: 150				
Core Concepts, Skills and Values	footprint;	-Alien plants e.g. <i>Eichomia</i>	devils' claw, rooibos, fynbos,		Time: 2 ½ hours				
စ္ည	-Deforestation.		the African potato ( <i>Hypoxis</i> )						
e O	-Greenhouse	□Food security (link with population ecology dynamics)	and <i>Hoodia</i> .		Topics and marks:				
Ö		-Human exponential population growth				fication of micro-organisms – 29			
<u> </u>	effect, enhanced	-Droughts and floods (climate change)	□Solid Waste Disposal		Biodiversity in plants a				
ပိ	Greenhouse effect	-Poor farming practices: monoculture; pest control, loss of	-Managing dumpsites for		Biodiversity in animals				
	and global	topsoil and the need for fertilisers;	rehabilitation and prevention		Population Ecology – 3				
	warming:	-Alien plants and reduction of agricultural land;	of soil and water pollution;		Human Impact on the	environment - 37			
	desertification,	-The loss of wild varieties: impact on gene pools;	-The need for recycling;	L					
	drought and floods;	-Genetically engineered foods;	-Using methane from						
	-Methane	-Wastage.	dumpsites for domestic use:						
	emissions;		heating and lighting; and	Con	initive levels:				
	<ul> <li>Ozone depletion.</li> </ul>		-Safe disposal of nuclear		wing science - 40%;				
			waste	Und	lerstanding science - 259	<u>%;</u>			
Pre-				App	lying scientific knowledg	e - <u>20%:</u>			
Knowledge		ECOSYSTEMS GR 10		Eval	luating, <u>analysing</u> and sy	nthesising science knowledge - 15%			
	Activity 39	Activity 41	Activity 44	Deg	rees of difficulty for ex	amination and test questions:			
Ø	Carbon footprint	Water availability	Case study on Rhino	Eas	y - <u>30%:</u> Jerate - <u>40%;</u>				
ţį		vvalei avallability		Mod	derate - <u>40%;</u> cult - <u>25%;</u>				
Ξ̈	and pollution	A - chide- 40	poaching and suggestions on	Ver	y difficult - 5%				
<u> </u>		Activity 42	how it can be prevented	10.,	y dimodit 070				
Daily activities	Activity 40	Water quality		End	-of-year examinations W	eighting: 60%			
Ę	Atmosphere and		Activity 45						
Ď	climate change	Activity 43	Pollution and recycling						
		Food security							
Investigations/	INVESTIGATION 13:					60%			
	Analyse the solid was	ste generated in the household in one week, including paper,				<b>55</b> 75			
Experiments	metals and plastic. Es	stimate the percentage that could be recycled or reused.							
Inform Tests		· · · · · · · · · · · · · · · · · · ·		1					
SBA		40%	<u> </u>	1					
Date		TO /0							
completed									
completed				l					