Soesdyke Secondary School Agricultural Science Termly Scheme of work



Grade 8

Christmas Term scheme

Head of Department: Melanie Richmond

WEEK	TOPIS/SUB- TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
1.	Selection of Crop	Become aware of the importance of considering environmental factors before selecting crops for cultivation	The selection of crops suitable for a particular region or area depends on factors such as: -climate -temperature -soil type -labour and capital -transportation and marketing facilities	Discussing	Agricultural Science for Sec. Schools in Guyana Bk. 2. World Wide Web	Oral questioning
2.	Land Preparation	Be aware of the different activities involved in land preparation	The process of involves the following activities: -Land clearing -Layout -Ploughing -Harrowing -Mulching Land clearing Is done to remove unwanted vegetation and objects from the field. Types of Land clearing -manual -mechanical	Discussing Naming Identifying	Agricultural Science for Sec. Schools in Guyana Bk. 2 Tools used for land clearing	Completing worksheet
3.	Propagation of Crops Sexual Reproduction	Demonstrate Knowledge of the parts of monocotyledo nous and dicotyledonou s seeds Recognize the types of reproduction in plants	Propagation of plants is the production of new plants by using different plant materials eg. Leaf, stem cuttings. There are two basic Types of plant propagation -Sexual reproduction -Asexual reproduction Types of seeds monocotyledonous	Discussing Defining Identifying Drawing and labelling	Agricultural Science for Sec. Schools in Guyana Bk. 2 C.X.C Agri 3 rd Edition World Wide Web	Identifying and naming parts of a seed

			T ~	1		
			eg. Corn			
			-dicotyledonous eg.			
			Blackeye			
			Parts of a seed			
			-testa			
			-cotyledons			
			-embryo			
			-plumule			
			-radicale			
			-endosperm			
			-Selection of seeds.			
4.	Propagation of	To have an	Germination is the	Discussing	Agricultural	
	crops	understanding	development of a		Science for	Oral questioning
	or opo	of what	seed into a seedling		Sec. Schools	oral questioning
		germination is	or young plant.	Naming	in Guyana Bk.	
	Sexual	germmation is	or young plant.	ruming	2	
	reproduction					
	(con'd)			Listing		
	(con u)			Listing	C.X.C Agri 3 rd	
			Requirements for		Edition Edition	
		Know the	germination		Lattion	
		requirements	-moisture			
		for	-moisture		Charts	
		germination to	tommomotiumo		showing the	
		•	-temperature			
		take place	ain.		types of	
			-air		germination	
		T	121.4			
		To recognize	-light			
		the two types			*** 1 1 **** 1	
		of germination			World Wide	
					Web	
			T C			
			Types of			
			germination			
			-Hypogeal			
			-Epigeal			

WEEK	TOPIS/SUB-	GENERAL	CONTENT	ACTIVITY	RESOURCES	EVALUATION
	TOPIC	OBJECTIVES				
_	Propagation of	To have an	Vegetative	Defining	Agricultural	Oral questioning
5.	crop	understanding	reproduction is the	I intima	Science for Sec. Schools	
	Asexual	of what asexual	production of new plants by other ways	Listing	in Guyana Bk.	
	Reproduction	reproduction	than using seeds		2	
	Reproduction	is	than using seeds	Naming	2	
		Become aware		Training		
		of the	Types of vegetation		C.X.C Agri 3 rd	
		differences	reproduction		Edition	
		between	-Natural			
		sexual and				
		asexual	-Artificial			
		reproduction	NT . 1			
			Natural vegetative			
			propagation is unaided by man.			
			unaided by man.			
			Artificial vegetative			
			reproduction is			
			aided or brought			
			about by man			
6.	Asexual	To be	Types of artificial	Defining	Charts	Completing
	Reproduction	acquainted	reproduction		showing	worksheet
	(con't)	with the	-budding e.g citrus	Observing	budding	
		practices of	plants		&grafting	
		budding and grafting	-grafting eg mango		Charts to	
		granning	plants		demonstrate	
			Piulio		budding &	
					grafting	

WEEK	TOPIS/SUB- TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
7.	Care and Maintenance of Crops	To expose students to fine common practices in caring and maintaining crops To be conscious of what irrigation is and its sources	Following the establishment of seedlings, a number of operations are necessary, but these vary from crop to crops. Practices -Irrigration -Weed control -Mulching -Fertilizer application Pest and Disease control Irrigation is the artificial addition of water to the soil so as to ensure an adequate supply of moisture to meet the needs of crops. Sources of irrigation water -rivers -streams -cakes -reservoirs	Defining Listing Naming	Agricultural Science for Sec. Schools in Guyana Bk. 2 Pictures of sources of water C.X.C Agri 3 rd Edition SCCP Manual Grade 10 World Wide Web	Short answer test
8.	Care and maintenance of crops (con't)	Expose students to the methods of irrigation Appreciate the purpose of mulching	Methods of irrigation –Overhead -Channel -Furrow -Flooding Purpose of Mulching	Listing Stating Naming	Agricultural Science for Sec. Schools in Guyana Bk. 2 Pictures of methods of irrigating	Oral questioning

WEEK	TOPIS/SUB- TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
9.	Care and maintenance of crops (con't)	Become aware of the methods used to control weeds and pests of crop plants	Pest and disease control Harmful Effects of weeds Methods of weeds control -Hand pulling	Listing Stating Naming	C.X.C Agri 3 rd Edition World Wide Web	Oral questioning
10.	Tools in Crop Production	Demonstrate knowledge of	- inter-tillage -Flooding Definition Atool is an	+Defining	Agri sc for sec sch in Guyana	Cross word puzzle (finding
	Froduction	tools and machinery used in crop cultivation. Value the importance of using garden tools and equipment.	implement used to make work easier Tools used for land preparation -cutlass -fork	Identifying Drawing and labelling	Bk2. Certificate Agri Realia tools Pictures of machinery	names of tools and machinery)
11.	Tools used in crop cultivation (con't) Seed box	Become familiar with what a seed box is and it's contents Demonstrate knowledge in preparing seed box for sowing seeds Recognise signs of poor growth in seedlings.	Definition A seed box is a wooden box of size 7cmx25cmx35cmtha t is used for sowing tiny seeds. Components of a seedbox -straw/ dry grass -un sifted potting soil -sifted potting soil Steps in preparing seed box Signs of poor growth in seedlings.	Definiting Stating Preparing Identifying	Agri sc for sec sch in Guyana Bk2. CXC (Agri 3 rd Edition Seed box Seed box components	Oral questioning Seed box Preparation

WEEK	TOPIS/SUB- TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
12	Seed beds	Know the processes involved in seed bed	Procedures involved in preparation of a seed bed	Discussion	Garden plot Tools	Oral questioning Practical
		preparation Become aquianted with the spacing and depth of planting seeds	Optimum spacing for plants between rows and within rows Right depth for planting seeds or transplanting	Preparing Seed bed	Manure SCCP Manual Grade 9	Fractical
13.	Revision Week	Revise work that was done during the term -Selection of crops -Land preparation -Propagation of crops -care and maintenance of crops -Tools used in crop cultivation	seedlings. Samples questions 1. What are some factors that affect the selection of crops? 2. List three activities involved in land preparation 3.Define the term plant propagation	Answering questions based on topics taught during term.	Oral questioning	Oral assessment

WEEK	TOPIS/SUB-	GENERAL	CONTENT	ACTIVITY	RESOURCES	EVALUATION
	TOPIC	OBJECTIVES				
			Topics	Answering	Multiple	Written Test
	End of Term	To assess		questions	choice and	
14	Examination	students on	Selection of crop	based on	short answer	
		concepts		concepts	questions	
		taught during	Land preparation	taught		
		school term	Propagation of crops			
			Care and			
			maintenance of			
			crops			
			Tools used in crop			
			cultivation			
15.			Topics	Answering	Multiple	Written Test
	End of Term	To assess		questions	choice and	
	Examination	students on	Selection of crop	based on	short answer	
		concepts		concepts	questions	
		taught during	Land preparation	taught		
		school term	Propagation of crops			
			Care and			
			maintenance of			
			crops			
			Tools used in crop			
			cultivation			

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DATE

Soesdyke Secondary School Agricultural Science Annual Scheme of work



Grade 8

Christmas Term scheme

Head of Department: Melanie Richmond

TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
Selection of Crop	Become aware of the importance of considering environmental factors before selecting crops for cultivation	The selection of crops suitable for a particular region or area depends on factors such as: -climate -temperature -soil type -labour and capital -transportation and marketing	Discussing	Agricultural Science for Sec. Schools in Guyana Bk. 2. World Wide Web	Oral questioning
Land Preparation	Be aware of the different activities involved in land preparation	facilities The process of involves the following activities: -Land clearing -Layout -Ploughing -Harrowing -Mulching Land clearing Is done to remove unwanted vegetation and objects from the field. Types of Land clearing -manual -mechanical	Discussing Naming Identifying	Agricultural Science for Sec. Schools in Guyana Bk. 2 Tools used for land clearing	Completing worksheet
Propagation of Crops Sexual Reproduction	Demonstrate Knowledge of the parts of monocotyledonous and dicotyledonous seeds Recognize the types of reproduction in plants	Propagation of plants is the production of new plants by using different plant materials eg. Leaf, stem cuttings. There are two basic Types of plant propagation	Discussing Defining Identifying Drawing and labelling	Agricultural Science for Sec. Schools in Guyana Bk. 2 C.X.C Agri 3 rd Edition World Wide Web	Identifying and naming parts of a seed

Propagation of crops Sexual reproduction (con'd)	To have an understanding of what germination is Know the requirements for germination to take place To recognize the two types of germination	-Sexual reproduction -Asexual reproduction Types of seeds monocotyledonous eg. Corn dicotyledonous eg. Blackeye Parts of a seed testa cotyledons embryo plumule radicale endosperm Selection of seeds. Germination is the development of a seed into a seedling or young plant. Requirements for germination emoisture temperature -temperature -tight Types of germination	Discussing Naming Listing	Agricultural Science for Sec. Schools in Guyana Bk. 2 C.X.C Agri 3 rd Edition Charts showing the types of germination World Wide Web	Oral questioning
		-Hypogeal -Epigeal			

TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
Propagation of crop Asexual Reproduction	To have an understanding of what asexual reproduction is Become aware of the differences between sexual and asexual reproduction	Vegetative reproduction is the production of new plants by other ways than using seeds Types of vegetation reproduction -Natural -Artificial Natural vegetative propagation is unaided by man. Artificial vegetative reproduction is aided or brought about by man	Defining Listing Naming	Agricultural Science for Sec. Schools in Guyana Bk. 2 C.X.C Agri 3rd Edition	Oral questioning
Asexual Reproduction (con't)	To be acquainted with the practices of budding and grafting	Types of artificial reproduction -budding e.g citrus plants -grafting eg mango plants	Defining Observing	Charts showing budding &grafting Charts to demonstrate budding & grafting	Completing worksheet
Care and Maintenance of Crops	To expose students to fine common practices in caring and maintaining crops To be conscious of what irrigation	Following the establishment of seedlings, a number of operations are necessary, but these vary from crop to crops.	Defining Listing Naming	Agricultural Science for Sec. Schools in Guyana Bk. 2 Pictures of sources of water	Short answer test

	is and its sources	Practices -Irrigration -Weed control -Mulching -Fertilizer application Pest and Disease control Irrigation is the artificial addition of water to the soil so as to ensure an		C.X.C Agri 3 rd Edition SCCP Manual Grade 10 World Wide Web	
		adequate supply of moisture to meet the needs of crops. Sources of irrigation water -rivers -streams -cakes -reservoirs			
Care and maintenance of crops (con't)	Expose students to the methods of irrigation Appreciate the purpose of mulching	Methods of irrigation — Overhead -Channel -Furrow -Flooding Purpose of Mulching	Listing Stating Naming	Agricultural Science for Sec. Schools in Guyana Bk. 2 Pictures of methods of irrigating	Oral questioning

onstrate vledge of and ninery used	Pest and disease control Harmful Effects of weeds Methods of weeds control -Hand pulling - inter-tillage -Flooding Definition Atool is an	Listing Stating Naming +Defining	C.X.C Agri 3rd Edition World Wide Web	Oral questioning
vledge of and	Definition	+Defining		
e the ortance of g garden and oment.	implement used to make work easier Tools used for land preparation -cutlass -fork	Identifying Drawing and labelling	Agri sc for sec sch in Guyana Bk2. Certificate Agri Realia tools Pictures of machinery	Cross word puzzle (finding names of tools and machinery)
ome familiar what a seed is and it's ents constrate yledge in aring seed for sowing is or growth edlings.	Definition A seed box is a wooden box of size 7cmx25cmx35cmthat is used for sowing tiny seeds. Components of a seedbox -straw/ dry grass -un sifted potting soil -sifted potting soil Steps in preparing seed box Signs of poor	Definiting Stating Preparing Identifying	Agri sc for sec sch in Guyana Bk2. CXC (Agri 3rd Edition Seed box Seed box components	Oral questioning Seed box Preparation
oppopoponoment of the control of the	the ance of garden and nent. The familiar that a seed and it's ts Instrate edge in ing seed r sowing the signs of the sign	tition. Tools used for land preparation -cutlass -fork Toels used for land preparation -cutlass -fork The familiar that a seed and it's ts Tools used for land preparation -cutlass -fork Definition A seed box is a wooden box of size 7cmx25cmx35cmthat is used for sowing tiny seeds. Tools used for land preparation -cutlass -fork Components of size Tomx25cmx35cmthat is used for sowing tiny seeds. Tools used for land preparation -cutlass -fork Tools used for land preparation -cutlass -fork A seed box is a wooden box of size Tomx25cmx35cmthat is used for sowing tiny seeds. Steps in preparing seed box Steps in preparing seed box	tition. Tools used for land preparation -cutlass -fork Toel familiar that a seed and it's ts Tomax25cmx35cmthat is used for sowing tiny seeds. Tomax25cmx35cmthat is used for sowing tiny seeds. Tools used for land preparation -cutlass -fork Definition A seed box is a wooden box of size 7cmx25cmx35cmthat is used for sowing tiny seeds. Preparing Identifying Identifying Tools used for land preparation -cutlass -fork Definiting Stating Stating Preparing Identifying Steps in preparing seed box Signs of poor	Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land preparation -cutlass -fork Pictures of machinery Tools used for land labelling Realia tools Pictures of machinery Stating CXC (Agri 3rd Edition Seed box -straw/ dry grass -un sifted potting soil -sifted potting

TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
Seed beds	Know the processes involved in	Procedures involved in preparation of a seed bed	Discussion	Garden plot	Oral questioning
	seed bed	seed bed		Tools	Practical
	preparation	Optimum spacing	Preparing Seed bed		
	_	for plants between	Seed sed	Manure	
	Become aquianted with	rows and within		SCCP	
	the spacing			Manual Grade	
	and depth of planting seeds	Right depth for planting seeds or		9	
		transplanting seedlings.			
Revision Week	Revise work that was done	Samples questions	Answering questions	Oral	Oral assessment
	during the	1.What are some	based on	questioning	
	term	factors that affect	topics taught		
	-Selection of	the selection of	during term.		
	crops	crops?			
	-Land				
	preparation	2. List three			
	-Propagation of crops	activities involved in			
	-care and	land preparation			
	maintenance	3.Define the term			
	of crops	plant propagation			
	-Tools used in	F F F 6			
	crop				
	cultivation				

TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
End of Term Examination	To assess students on concepts taught during school term	Topics Selection of crop Land preparation Propagation of crops Care and maintenance of crops Tools used in crop cultivation	Answering questions based on concepts taught	Multiple choice and short answer questions	Written Test
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