

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 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 -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

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

WEEK	TOPIS/SUB-TOPIC	GENERAL OBJECTIVES	CONTENT	ACTIVITY	RESOURCES	EVALUATION
5.	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 3 rd Edition	Oral questioning
6.	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

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

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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 - inter-tillage -Flooding	Listing Stating Naming	C.X.C Agri 3 rd Edition World Wide Web	Oral questioning
10.	Tools in Crop Production	Demonstrate knowledge of tools and machinery used in crop cultivation. Value the importance of using garden tools and equipment.	Definition A tool is an implement used to make work easier Tools used for land preparation -cutlass -fork	+Defining 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)
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 7cmx25cmx35cm that 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.	Defining 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

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

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14	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
15.	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

PREPARED BY: Melanie Richmond

SIGNATURE H.O.D *Melanie Richmond*

SIGNATURE: H.M

DATE.....

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Agricultural Science Annual Scheme of work



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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 facilities	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	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

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

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<p>Propagation of crop</p> <p>Asexual Reproduction</p>	<p>To have an understanding of what asexual reproduction is</p> <p>Become aware of the differences between sexual and asexual reproduction</p>	<p>Vegetative reproduction is the production of new plants by other ways than using seeds</p> <p>Types of vegetation reproduction</p> <ul style="list-style-type: none"> -Natural -Artificial <p>Natural vegetative propagation is unaided by man.</p> <p>Artificial vegetative reproduction is aided or brought about by man</p>	<p>Defining</p> <p>Listing</p> <p>Naming</p>	<p>Agricultural Science for Sec. Schools in Guyana Bk. 2</p> <p>C.X.C Agri 3rd Edition</p>	<p>Oral questioning</p>
<p>Asexual Reproduction (con't)</p>	<p>To be acquainted with the practices of budding and grafting</p>	<p>Types of artificial reproduction</p> <ul style="list-style-type: none"> -budding e.g citrus plants -grafting eg mango plants 	<p>Defining</p> <p>Observing</p>	<p>Charts showing budding & grafting</p> <p>Charts to demonstrate budding & grafting</p>	<p>Completing worksheet</p>
<p>Care and Maintenance of Crops</p>	<p>To expose students to fine common practices in caring and maintaining crops</p> <p>To be conscious of what irrigation</p>	<p>Following the establishment of seedlings, a number of operations are necessary, but these vary from crop to crops.</p>	<p>Defining</p> <p>Listing</p> <p>Naming</p>	<p>Agricultural Science for Sec. Schools in Guyana Bk. 2</p> <p>Pictures of sources of water</p>	<p>Short answer test</p>

	is and its sources	<p>Practices</p> <ul style="list-style-type: none"> -Irrigation -Weed control -Mulching -Fertilizer application <p>Pest and Disease control</p> <p>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.</p> <p>Sources of irrigation water</p> <ul style="list-style-type: none"> -rivers -streams -cakes -reservoirs 		<p>C.X.C Agri 3rd Edition</p> <p>SCCP Manual Grade 10</p> <p>World Wide Web</p>	
Care and maintenance of crops (con't)	Expose students to the methods of irrigation Appreciate the purpose of mulching	<p>Methods of irrigation –</p> <ul style="list-style-type: none"> -Overhead -Channel -Furrow -Flooding <p>Purpose of Mulching</p>	<p>Listing</p> <p>Stating</p> <p>Naming</p>	<p>Agricultural Science for Sec. Schools in Guyana Bk. 2</p> <p>Pictures of methods of irrigating</p>	Oral questioning

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Care and maintenance of crops (con't)	Become aware of the methods used to control weeds and pests of crop plants	<p>Pest and disease control</p> <p>Harmful Effects of weeds</p> <p>Methods of weeds control</p> <p>-Hand pulling - inter-tillage -Flooding</p>	<p>Listing</p> <p>Stating</p> <p>Naming</p>	<p>C.X.C Agri 3rd Edition</p> <p>World Wide Web</p>	Oral questioning
Tools in Crop Production	<p>Demonstrate knowledge of tools and machinery used in crop cultivation.</p> <p>Value the importance of using garden tools and equipment.</p>	<p>Definition A tool is an implement used to make work easier</p> <p>Tools used for land preparation -cutlass -fork</p>	<p>+Defining</p> <p>Identifying</p> <p>Drawing and labelling</p>	<p>Agri sc for sec sch in Guyana Bk2.</p> <p>Certificate Agri</p> <p>Realia tools</p> <p>Pictures of machinery</p>	Cross word puzzle (finding names of tools and machinery)
<p>Tools used in crop cultivation (con't)</p> <p>Seed box</p>	<p>Become familiar with what a seed box is and it's contents</p> <p>Demonstrate knowledge in preparing seed box for sowing seeds</p> <p>Recognise signs of poor growth in seedlings.</p>	<p>Definition A seed box is a wooden box of size 7cmx25cmx35cm that is used for sowing tiny seeds.</p> <p>Components of a seedbox -straw/ dry grass -un sifted potting soil -sifted potting soil</p> <p>Steps in preparing seed box</p> <p>Signs of poor growth in seedlings.</p>	<p>Defining</p> <p>Stating</p> <p>Preparing</p> <p>Identifying</p>	<p>Agri sc for sec sch in Guyana Bk2.</p> <p>CXC (Agri 3rd Edition)</p> <p>Seed box</p> <p>Seed box components</p>	<p>Oral questioning</p> <p>Seed box Preparation</p>

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Revision Week	<p>Revise work that was done during the term</p> <ul style="list-style-type: none"> -Selection of crops -Land preparation -Propagation of crops -care and maintenance of crops -Tools used in crop cultivation 	<p>Samples questions</p> <ol style="list-style-type: none"> 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 	<p>Answering questions based on topics taught during term.</p>	<p>Oral questioning</p>	<p>Oral assessment</p>

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