

MOUNTAIN TOP AGRICULTURE ACTIVITIES.

GRADE 5 SCHEMES OF WORK TERM 2

W k	L s n	Strand/T heme	Sub strand	Specific learning outcomes	Key inquiry Question s	Learning experiences	Learnin g Resource s	Assessment methods	Refl
1	1	CONSERVING OUR ENVIRONMENT	Planting- raising climbing fruits from cuttings	By the end of the sub strand the learner should be able to a. Prepare planting materials for establishing climbing fruits In the school or at home b. Establish planting materials for climbing fruits on suitable site. c. Raise climbing fruit seedlings from cuttings d. Appreciate the importance of fruits in promoting good health	How can we prepare planting materials for climbing fruit plants? How are climbing fruit plants established?	- In groups, learners to prepare suitable planting materials for climbing fruit plants such as to various varieties of passion fruits, grapes, kiwi and berries. - Learners to plant the selected planting materials on suitably prepared site. <i>The site could be on the ground or appropriate container on a plot or along the fence</i>	• Pictures • Photos • cuttings • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg. 36-37</i> • <i>MTP Agriculture Grade 5 TG. Pg. 76-77</i>	• Oral questions • Written quizzes • Observation	
	2		How to Care for young climbing fruit plants	By the end of the sub strand the learner should be able to a. Protect young climbing fruit plants from excessive sun heat and physical damage. b. Explain how to care for climbing fruits from excessive sun heat and physical damage c. Appreciate the importance of fruits in promoting good health	How can we take care of climbing fruit plants after planting?	- In groups, learners construct shades to protect young fruit plants from damages. - Learners to engage their parents or guardians and the community members in growing climbing fruit plants.	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.38-40</i> • <i>MTP Agriculture Grade 5 TG. Pg. 78-79</i>	• Oral questions • Written quizzes • Observation	

	3		How to Care for young climbing fruit plants	By the end of the sub strand the learner should be able to - Protect young climbing fruit plants from excessive sun heat and physical damage. - Explain how to care for climbing fruits from	How can we take care of climbing fruit plants after planting?	- In groups, learners construct shades to protect young fruit plants from damages. - Learners to engage their parents or guardians and the community members	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.38-40</i>	• Oral questions • Written quizzes • Observation	
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				excessive sun heat and physical damage c. Appreciate the importance of fruits in promoting good health		in growing climbing fruit plants.	• <i>MTP Agriculture Grade 5 TG. Pg. 78-79</i>		
2	1		How to Care for young climbing fruit plants	By the end of the sub strand the learner should be able to a. Support climbing fruit vines using appropriate materials b. Discuss ways of supporting climbing fruit vines c. Appreciate the importance of fruits in promoting good health	How can we take care of climbing fruit plants after planting?	- Learner to use appropriate materials to support the climbing fruit vines. - Learners to engage their parents or guardians and the community members in growing climbing fruit plants.	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.38-40</i> • <i>MTP Agriculture Grade 5 TG. Pg. 78-79</i>	• Oral questions • Written quizzes • Observation	
	2		How to Care for young climbing fruit plants	By the end of the sub strand the learner should be able to a. Water the young fruit plants on the established site. b. Protect the young climbing fruit crops from weeds. c. Appreciate the importance of fruits in promoting good health	How can we take care of climbing fruit plants after planting?	- In groups, learners water the young fruit plants. - Learners to apply manure and fertilizer to fruit plants. - Learners to weed for the fruit plants.	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.38-40</i> • <i>MTP Agriculture Grade 5 TG. Pg. 78-79</i>	• Oral questions • Written quizzes • Observation	
	3		How to Care for young climbing fruit plants	By the end of the sub strand the learner should be able to a. Apply manure and fertilizer to the established climbing fruit plants. b. Protect the young climbing fruit crops from weeds. c. Appreciate the importance of fruits in promoting good health	How can we take care of climbing fruit plants after planting?	- In groups, learners water the young fruit plants. - Learners to apply manure and fertilizer to fruit plants. - Learners to weed for the fruit plants. -	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.38-40</i> • <i>MTP Agriculture Grade 5 TG. Pg. 78-79</i>	• Oral questions • Written quizzes • Observation	

3	1		Conservation project: Managing climbing fruit plants- <i>identifying</i>	By the end of the sub strand the learner should be able to a. Identify project activities for managing climbing fruits b. Explain the requirements of the project.	What activities are carried out in the management of climbing fruit plants?	- In groups, learners to take care of the established climbing fruit plants by carrying out appropriate activities such as protective shade around the fruit plants, watering,	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.41</i>	• Oral questions • Written quizzes • Observation	
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			<i>the project activities</i>	c. Appreciate the importance of caring for climbing fruits plants	When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	manuring, removing excess branches and training the fruit plant. -	• <i>MTP Agriculture Grade 5 TG. Pg. 82</i>		
	2		<i>identifying the project activities</i>	By the end of the sub strand the learner should be able to a. Identify project activities for managing climbing fruits b. Explain the requirements of the project. c. Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners to take care of the established climbing fruit plants by carrying out appropriate activities such as protective shade around the fruit plants, watering, manuring, removing excess branches and training the fruit plant. -	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.41</i> • <i>MTP Agriculture Grade 5 TG. Pg. 82</i>	• Oral questions • Written quizzes • Observation	
	3		<i>Making a project schedule</i>	By the end of the sub strand the learner should be able to a. Identify project activities for managing climbing fruits b. Make a project duty schedule with responsibility for each schedule c. Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners to take care of the established climbing fruit plants by carrying out appropriate activities such as protective shade around the fruit plants, watering, manuring, removing excess branches and training the fruit plant. - In groups learners to make a projects schedule to undertake the identified activity	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.42</i> • <i>MTP Agriculture Grade 5 TG. Pg. 82-83</i>	• Oral questions • Written quizzes • Observation	

4	1		<i>Making a project schedule</i>	By the end of the sub strand the learner should be able to - Identify project activities for managing climbing fruits - Make a project duty schedule with responsibility for each schedule	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting?	- In groups, learners to take care of the established climbing fruit plants by carrying out appropriate activities such as protective shade around the fruit plants, watering, manuring, removing excess branches and training the fruit plant.	- Pictures - Photos - Digital devices - Video clips <i>MTP Agriculture Grade 5 Leaners Bk. Pg.42</i> <i>MTP Agriculture Grade 5 TG. Pg. 82-83</i>	- Oral questions - Written quizzes - Observation	
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				c. Appreciate the importance of caring for climbing fruits plants	How are fruits from climbing fruit plants harvested?	- In groups learners to make a projects schedule to undertake the identified activity			
2		<i>Identifying the right stage of harvesting g climbing fruits</i>	By the end of the sub strand the learner should be able to a. Care for climbing fruit plants in the environment. b. Identify right stage for harvesting climbing fruits to avoid wastage c. Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners share experiences on how to identify a mature fruit of climbing fruit plants. -	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.43-43</i> • <i>MTP Agriculture Grade 5 TG. Pg. 85-86</i>	• Oral questions • Written quizzes • Observation		
3		<i>Identifying the right stage of harvesting g climbing fruits</i>	By the end of the sub strand the learner should be able to a. Care for climbing fruit plants in the environment. b. Identify right stage for harvesting climbing fruits to avoid wastage c. Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners share experiences on how to identify a mature fruit of climbing fruit plants. -	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.43-43</i> • <i>MTP Agriculture Grade 5 TG. Pg. 85-86</i>	• Oral questions • Written quizzes • Observation		

5	1		<i>Harvesting fruits from climbing plants</i>	By the end of the sub strand the learner should be able to - Identify right stage for harvesting climbing fruits to avoid wastage - Harvest fruits appropriately to reduce damages - Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners to carry out harvesting of climbing fruits. - Learners to assist parents or guardians in the activities for caring for climbing fruit crops at home.	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.45</i> • <i>MTP Agriculture Grade 5 TG. Pg. 87-88</i>	• Oral questions • Written quizzes • Observation	
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	2		<i>Harvesting fruits from climbing plants</i>	By the end of the sub strand the learner should be able to a. Identify right stage for harvesting climbing fruits to avoid wastage b. Harvest fruits appropriately to reduce damages c. Appreciate the importance of caring for climbing fruits plants	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups, learners to carry out harvesting of climbing fruits. - Learners to assist parents or guardians in the activities for caring for climbing fruit crops at home.	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.45</i> • <i>MTP Agriculture Grade 5 TG. Pg. 87-88</i>	• Oral questions • Written quizzes • Observation	
	3		<i>Importance of fruits</i>	By the end of the sub strand the learner should be able to a. Harvest fruits appropriately to reduce damages b. Watch a video clip on how to harvest fruits c. Demonstrate understanding of the importance of consuming fruits for nutrition	What activities are carried out in the management of climbing fruit plants? When are fruits ready for harvesting? How are fruits from climbing fruit plants harvested?	- In groups learners to discuss the importance of fruits	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.45-46</i> • <i>MTP Agriculture Grade 5 TG. Pg. 88-89</i>	• Oral questions • Written quizzes • Observation	
6	1	DOMESTIC ANIMALS	Uses of domestic animals – identifying various domestic animals	By the end of the sub strand the learner should be able to a. Identify the uses of various domestic animals to human beings. b. Draw and colour various domestic animals c. Appreciate the importance of domestic animals to human beings	How are domestic animals important to human beings?	- In pairs learners to brainstorm and share experiences on the uses of domestic animals (<i>bees, rabbits, camels, fish, pigs, donkeys, dogs, cats and horses</i>) -	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Leaners Bk. Pg.47-49</i> • <i>MTP Agriculture Grade 5 TG. Pg. 90</i>	• Oral questions • Written quizzes • Observation	

	2		<i>Relating animals to their uses</i>	By the end of the sub strand the learner should be able to - Identify and name various domestic animals - Relate various domestic animals to their uses. - Appreciate the importance of domestic animals to human beings	How are domestic animals important to human beings?	- In groups, learners to match domestic animals to their uses. - Learners to watch video clips on various types of domestic animals and their use. - Learners visit the neighboring farms to	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.49-52</i>	• Oral questions • Written quizzes • Observation	
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						explore various uses of domestic animals.	• <i>MTP Agriculture Grade 5 TG. Pg. 91-92</i>		
	3		<i>Animal welfare</i>	By the end of the sub strand the learner should be able to - Care and love domestic animals - Create awareness on the rights of domestic animals in the locality - Appreciate the importance of domestic animals to human beings	How are domestic animals important to human beings?	- Learners visit the neighboring farms to explore various uses of domestic animals. - Learners to care and love domestic animals	• Pictures • Photos • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.52-54</i> • <i>MTP Agriculture Grade 5 TG. Pg. 93-95</i>	• Oral questions • Written quizzes • Observation	
7	1	GARDENING PRACTICES	Indigenous food crops – identifying types of indigenous crops	By the end of the sub strand the learner should be able to - Give the meaning of indigenous food crops in the community. - Identify types of indigenous food crops grown in Kenya - Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- In pairs, learners brainstorm on the meaning and importance of indigenous food crops. - In groups, learners to brainstorm and share experiences on types of indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum and indigenous root crops such as yams and cassava</i>).	• Pictures • Photos • Realia • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.56-58</i> • <i>MTP Agriculture Grade 5 TG. Pg. 98-99</i>	• Oral questions • Written quizzes • Observation	
	2		<i>identifying types of indigenous crops</i>	By the end of the sub strand the learner should be able to - Give the meaning of indigenous food crops in the community. - Identify types of indigenous food crops grown in Kenya - Demonstrate understanding of the importance of indigenous food crops to nutrition,	What types of indigenous crops are found in the community? Why are indigenous crops important?	- Learners visit the neighboring environment to identify the various indigenous food crops (<i>vegetables, cereals and root crops</i>)	• Pictures • Photos • Realia • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.56-58</i> • <i>MTP Agriculture Grade 5 TG. Pg. 98-99</i>	• Oral questions • Written quizzes • Observation	

				health and food security					
	3		<i>Using flash cards to identify</i>	By the end of the sub strand the learner should be able to	What types of indigenous crops are	- In groups, learners to brainstorm and share experiences on types of	• Pictures • Photos • Realia	• Oral questions	

			<i>indigenous food crops</i>	a. Identify types of indigenous food crops grown in Kenya b. Use flash cards to identify indigenous food crops c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	found in the community? Why are indigenous crops important?	indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum and indigenous root crops such as yams</i>)	- Digital devices - Video clips - MTP Agriculture Grade 5 Learners Bk. Pg.58-59 - MTP Agriculture Grade 5 TG. Pg. 101	- Written quizzes - Observation	
8	1		<i>Role play</i>	By the end of the sub strand the learner should be able to a. Role play the importance of indigenous food crops In the community b. Name the types of indigenous crops found in the community c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- In groups, learners to brainstorm and share experiences on types of indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum and indigenous root crops such as yams</i>)	- Pictures - Photos - Realia - Digital devices - Video clips - MTP Agriculture Grade 5 Learners Bk. Pg.60-61 - MTP Agriculture Grade 5 TG. Pg. 101-102	- Oral questions - Written quizzes - Observation	
	2		<i>Exploring indigenous food crops in our neighbourhood</i>	By the end of the sub strand the learner should be able to a. Give the meaning of indigenous food crops in the community. b. Explore the various indigenous food crops in their locality c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- In groups, learners to brainstorm and share experiences on types of indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum and indigenous root crops such as yams</i>)	- Pictures - Photos - Realia - Digital devices - Video clips - MTP Agriculture Grade 5 Learners Bk. Pg.61-62 - MTP Agriculture Grade 5 TG. Pg. 102-103	- Oral questions - Written quizzes - Observation	

	3		<i>Exploring indigenous food crops in our neighbourhood</i>	By the end of the sub strand the learner should be able to - Give the meaning of indigenous food crops in the community. - Explore the various indigenous food crops in their locality	What types of indigenous crops are found in the community? Why are indigenous crops important?	- In groups, learners to brainstorm and share experiences on types of indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum</i>)	- Pictures - Photos - Realia - Digital devices - Video clips <i>MTP Agriculture Grade 5 Learners Bk. Pg.61-62</i>	- Oral questions - Written quizzes - Observation	
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				c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security		<i>and indigenous root crops such as yams</i>	• MTP Agriculture Grade 5 TG. Pg. 102-103		
9	1		<i>Exploring indigenous food crops in our neighbourhood</i>	By the end of the sub strand the learner should be able to a. Give the meaning of indigenous food crops in the community. b. Explore the various indigenous food crops in their locality c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- In groups, learners to brainstorm and share experiences on types of indigenous food crops (<i>indigenous vegetables such as pigweeds and black night shade, indigenous cereals such as millet and sorghum and indigenous root crops such as yams</i>)	• Pictures • Photos • Realia • Digital devices • Video clips • MTP Agriculture Grade 5 Learners Bk. Pg.61-62 • MTP Agriculture Grade 5 TG. Pg. 102-103	• Oral questions • Written quizzes • Observation	
	2		<i>Preserving and mounting parts of indigenous food plants for display</i>	By the end of the sub strand the learner should be able to a. Identify ways of preserving indigenous food plants b. Display various types of indigenous food crops for identification purposes. c. Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- Learner to collect, preserve and mount identifiable parts such as leaf specimen of various indigenous food crops on manila paper such as <i>indigenous vegetables: pigweed, pumpkin, black night shade, spider weed; indigenous cereals: millet, sorghum and Indigenous root crops: cassava, yams, sweet potato, arrow roots</i>	• Pictures • Photos • Realia • Digital devices • Video clips • MTP Agriculture Grade 5 Learners Bk. Pg.62-64 • MTP Agriculture Grade 5 TG. Pg. 103-105	• Oral questions • Written quizzes • Observation	

	3		<i>Preserving and mounting parts of indigenous food plants for display</i>	By the end of the sub strand the learner should be able to - Identify ways of preserving indigenous food plants - Display various types of indigenous food crops for identification purposes. - Demonstrate understanding of the importance of indigenous food crops to nutrition, health and food security	What types of indigenous crops are found in the community? Why are indigenous crops important?	- Learner to collect, preserve and mount identifiable parts such as leaf specimen of various indigenous food crops on manila paper such as <i>indigenous vegetables: pigweed, pumpkin, black night shade, spider weed: indigenous cereals: millet, sorghum and Indigenous root crops:</i>	• Pictures • Photos • Realia • Digital devices • Video clips • <i>MTP Agriculture Grade 5 Learners Bk. Pg.62-64</i> • <i>MTP Agriculture Grade 5 TG. Pg. 103-105</i>	• Oral questions • Written quizzes • Observation	
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