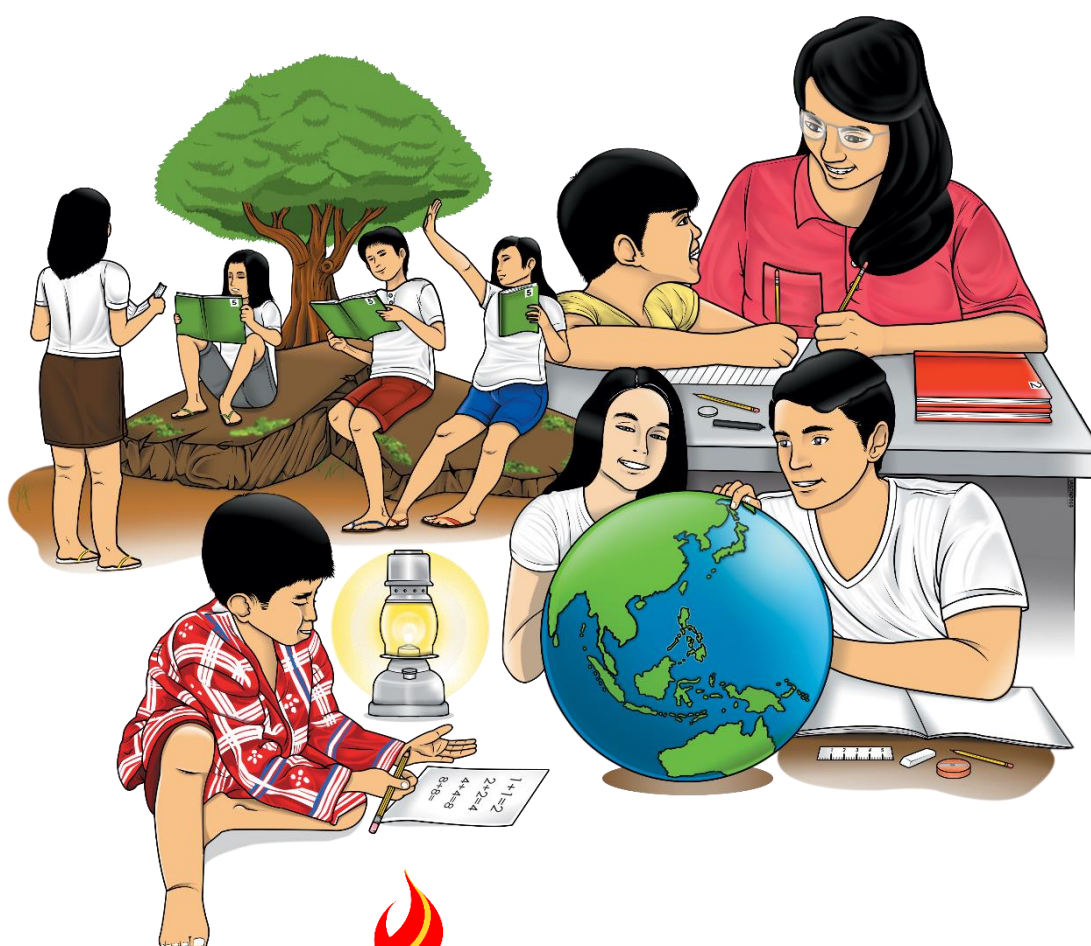


Technology and Livelihood Education

Agri-Fishery Arts

Module 2: Trees and Fruit-Bearing Trees



TLE – Agri-Fishery Arts – Grade 6
Alternative Delivery Mode
Module 2: Trees and Fruit-Bearing Trees
First Edition, 2020

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Technology and Livelihood Education

Agri-Fishery Arts

Module 2: Trees and Fruit-Bearing Trees

Introductory Message

This Self-Learning Module (SLM) is prepared so that you, our dear learners, can continue your studies and learn while at home. Activities, questions, directions, exercises, and discussions are carefully stated for you to understand each lesson.

Each SLM is composed of different parts. Each part shall guide you step-by-step as you discover and understand the lesson prepared for you.

Pre-tests are provided to measure your prior knowledge on lessons in each SLM. This will tell you if you need to proceed on completing this module or if you need to ask your facilitator or your teacher's assistance for better understanding of the lesson. At the end of each module, you need to answer the post-test to self-check your learning. Answer keys are provided for each activity and test. We trust that you will be honest in using these.

In addition to the material in the main text, Notes to the Teacher are also provided to our facilitators and parents for strategies and reminders on how they can best help you on your home-based learning.

Please use this module with care. Do not put unnecessary marks on any part of this SLM. Use a separate sheet of paper in answering the exercises and tests. And read the instructions carefully before performing each task.

If you have any questions in using this SLM or any difficulty in answering the tasks in this module, do not hesitate to consult your teacher or facilitator.

Thank you.



What I Need to Know

Tree is a woody perennial plant, having a single stem or trunk growing to a considerable height, bearing lateral branches of some distance from the ground. Examples of which are Narra, Molave, Ipil-ipil, Mahogany, Gemelina, Acacia, etc.

Fruit-bearing trees are trees which bear fruit, these products of trees are used as source of livelihood for some people. Furthermore, fruits are known as regulating food of the body and a good source of some vitamins.

This module covers topics on trees and fruit-bearing trees. After going through this module, you are expected to use technology in the conduct of survey to find out the:

1. elements to be observed in planting trees and fruit-bearing trees;
2. market demands for trees; and
3. famous orchard farms in the country.



What I Know

This activity will check what you have already know in the topics. You are given two columns where you are going to match the statements in Column A with the words being described in Column B. Write the letter of the correct answer in a separate sheet of paper.

COLUMN A	COLUMN B
1. A method of planting seeds directly into the ground or plot.	A. Analyze and Act upon Result
2. Defining what you really want to know, stating the problems you need to solve, and deciding what project do you like to have are important considerations in preparing what step of survey?	B. Application of Fertilizers

<p>3. Do not mix fruits, classify them according to ripeness, size, and shape. This must be observed to maintain the good condition and quality of products.</p>	C. Harvesting fruits
<p>4. The process can be done in 7 to 15 days before transplanting to make the tissue of the plants firmer and survive the rigors of transplanting.</p>	D. Direct seeding
<p>5. It is the process where seedling is transferred from the seed box or other containers to the ground or plot for growth, development, and production.</p>	E. Thinning
<p>6. What elements to be observed in planting trees are being described by: choose the right place for planting, select seeds that best suited for both soil and the seasons and apply the right kind and amount of fertilizer?</p>	F. Hardening
<p>7. Usually done through picking when fruits are mature enough and ready to be sold to the market fresh and in good condition.</p>	G. Orchard Farm
<p>8. It refers to consumers or buyers' attitude on how much they want a certain product in a given period of time.</p>	H. Proper Care of Plants and Soil
<p>9. Trees and fruit-bearing trees need vitamins and minerals for their growth. These elements are found in the soil but are improved when mixed with either organic or inorganic materials.</p>	I. Correct Storing
<p>10. When survey results have been gathered, and analysis using electronic presentation programs is done, compare it with your objectives to come up with a final, specific, and attainable action to realize your goals are activities in what step of preparing a survey?</p>	J. Market Demand
	K. Identifying Objectives
	L. Transplanting

Module

2

Trees and Fruit-Bearing Trees



What's In

Do you know why plants grow well? Let us recall your previous knowledge about plants by answering these simple exercises. Write T if the statement is TRUE and F if it is FALSE. Use a separate sheet of paper to write your answers.

- _____ 1. Fertilizers are added to the soil to make plants healthy and more productive.
- _____ 2. Trees planted in small pots can survive and can bear fruits in season.
- _____ 3. It is important to plant a tree during rainy season.
- _____ 4. Sunlight is the main energy provider for plants to grow but not to bear fruits in certain number of years.
- _____ 5. Market demand is described as the attitude of consumers to buy a certain product available in the marketplace for a given period.
- _____ 6. Fruits of different trees are rich sources of vitamins for the body. You can get Vitamin C from fruits.
- _____ 7. Pricking is transferring of trees or fruit-bearing trees seedlings from one seed box to another.
- _____ 8. Fertilizers are not necessary for plants' growth and productivity.
- _____ 9. We are encouraged to plant more trees today to help Mother Earth because trees give off carbon dioxide to the environment.
- _____ 10. To avoid plants from withering, water and sunlight are added to it every day.

¹ Langra Mango Tree Mathuraphur Bhagalour Bihar, Free Royalty, <https://commons.wikimedia.org/wiki/>

² Shallow focus of photography of green fruit, Free Royalty, <https://www.pickpik.com/mang>



What's New

To start this module on the use of technology in the conduct of survey to find out topics about planting trees and fruit-bearing trees, read the short story below to inspire your interest.

My First Planted Tree

A family from Manila has decided to go back to the place where they used to reside as a married couple in the province. Their elder son, Chino, and the rest of their children are enrolled in an elementary school near the place where they live.

Chino is a Grade 6 pupil at the present school year. He is a dedicated learner and is attending his classes regularly. On his way to their school, he observes that there are trees planted on a farm nearby. This farm is an orchard planted with Rambutan and owned by a local farmer.

Chino becomes more interested to know about this tree when he sees that it bears fruits. Then he says to himself, "I like to plant this kind of tree in our backyard". But he does not know how to plant this fruit-bearing tree.

One day after his class, Chino visits the farm to meet the owner or any caretaker to survey the tree being planted in the orchard. He prepares some questions to be answered by the owner or caretaker of the farm. When he arrives at the place, it is timely that the owner comes to visit his orchard.

Chino starts his interview with the owner regarding how to plant and propagate the tree. He then knows that the name of this fruit-bearing tree is Rambutan.

The owner is happy having been interviewed by a pupil because his work is appreciated and has caused pupils to be attracted to planting trees. He teaches Chino how to plant Rambutan and care for it to bear more fruits. He also tells his story of how to become a successful farmer. Finally, to the owner's excitement, he gives Chino ten (10) pieces of grafted RAMBUTAN seedlings.

Chino goes home with full energy and eager to plant his first tree. He takes care of his planted RAMBUTAN according to what the owner has told him. As the days go by, Chino is waiting to see his planted trees to bear many fruits and enjoy it to be shared with his family.

As a grade six pupil, would you like also to become a successful farmer someday?



What is It



³Fruit Tree



⁴Trees

From the short story you read, what caused Chino to become interested in planting trees? What did he do to start planting the tree he liked? To deepen your understanding on this lesson, study the next activities.

Farmers should conduct survey to have a better knowledge in planting and propagating trees, what the market demands at the present time, and how some orchard farmers become successful in what they do.

Survey is gathering of data or information from others through internet or any social media; reading books, magazines or brochures; interviews to farmers and listening to radio broadcast or watching tv programs. Data gathered from these activities can be used to increase production and profit.

Conducting Effective Online Surveys

With the use of the present technology, surveys have become fast to help you quickly reach your target respondents and to participate in your activity at a much lower cost. Learn from the suggested ways on how to do a survey with the aid of technology given below.

Steps for Conducting Effective Online Surveys

1. Define Your Survey's Objectives

Defining what you really want to know and stating the problem/s you need to solve are important in identifying your objectives. Decide what project do you like to have. Look or imagine what would be the result of your project and keep your objectives narrow and simple.

³ Free Royalty, <https://pxhere.com/en/photo/881166>

⁴ Johannes Plenio, Free Royalty, <https://www.pexels.com/photo/two-brown-trees-1632790/>

2. Identify Your Target Audience

Who are the participants in your survey? Start in your existing community and consider your present work and prospects in the markets. Proper sizes of survey samples are to be identified to properly analyze the results and how you act on them.

3. Prioritize Your Questions

Survey questions must be specific and must be related to your goals and objectives set. What attitudes or insights do you want to measure from the participants and what answers or expected results will help you make more informed decisions are to be considered in preparing our survey questionnaires. Always provide options for participants to choose from to facilitate expected outcomes.

4. Test the Survey

Test thoroughly your survey forms in many PC platforms, operating systems, various web browsers, etc. before you send it and broadcast the survey to your chosen sample participants. At times, the use of technology is unpredictable so think ahead on how to troubleshoot the process.

5. Communicate the Survey's Purpose

Inform your survey participants about its purpose and how these data become useful in improving the activities, products or services you have. This can be done by sending email to announce the survey to your expected respondents.

6. Analyze and Act Upon the Results

As soon as your survey forms have been published online, results will begin to drop. Gather these results and begin analyzing the data as needed in spreadsheets, presentation programs and statistical software. When survey results analysis is done, compare it with your objectives to come up a final, specific, and attainable action to realize your goals.

The following online survey tools are free of use: Google Forms, SurveyMonkey, Typeform, SurveyLegend, Polldaddy, Survey Planet, etc. These will assist you in your journey in gathering data.

After learning how to use technology in doing survey, you are now ready to find out the lessons included in this module.

A. Elements to be observed in planting trees and fruit-bearing trees

1. Proper care of the plants and soil

Trees and fruit-bearing trees need a wider space for planting to grow and be productive than ornamental plants and vegetables because the roots of the trees expand sideward and move downward. Here are some ways of caring plants and soil:

1.1 Choose the right place for planting.

Farmers should select a place away from thickly populated areas, roots of the plants have enough space to spread out, and near to different bodies of water like lakes, swamps and rivers. The kind of soil as well as the amount of sunlight that the trees can have should also be considered.

1.2. Select seeds that best suited for both soil and the season.

Good quality seeds came from high yielding mother trees, so farmers should be skilled in choosing the right seeds in order to gain more products.

Plant trees according to their season of planting. A good season in planting is the rainy season where there is abundance of water. A farmer should prepare the soil and seeds before planting.

1.3. Add enough fertilizer into the soil.

Trees and fruit-bearing trees need vitamins and minerals for their growth. These elements are found in the soil but are improved when mixed with either organic or inorganic fertilizers. Organic fertilizer is safer and more economical to use while using inorganic fertilizer or commercial fertilizer should be regulated because overuse of it can damage the soil.

1.4. Take care of the soil and the plants regularly.

Proper care of soil and young trees or fruit-bearing trees is another element in planting tree. This can be done by removing the grasses or weeds around each tree, so it cannot compete in getting the nutrients from the soil. Use organic pesticides or apply appropriate fungicide or insecticide to properly manage and control the pest, if possible

2. Methods of Planting

There are two methods in planting trees. Direct-seeding is a method of planting seeds directly into the ground or plot. Indirect or Transplanting Method is planting seeds in a seed box or plastic container, fully grown seedlings are transplanted to the ground or plot. Seeds to be planted are seeds with high percentage of germination, correct moisture content, and free from seed pest, diseases, and other impurities. When planting seedlings, select those that have uniform height and having varietal purity.



⁵Indirect Method



⁶Direct Method

3. The Seed Germination

Seed germination is the development or growth of a seed into a young plant that influence harvest and the quality of tree products. This process needs water or moisture, warmth or temperature, oxygen, and sunlight for seeds to grow in either a seed box, plastic container or other wrappers.



⁵ Tomatoes Ready for Planting, Free Royalty, <https://commons.wikimedia.org/wiki/>

⁶ Pacific Southwest Forest Services, USDA, Free Royalty, <https://www.flickr.com/photos/usfsregion5/>

4. Preparation of seedlings before transplanting

Transplanting is the process where seedling is transferred from the seed box or other containers to the ground or plot for growth, development, and production.



To avoid mortality in transplanting seedlings and to attain a higher rate of survival, the following processes are to be kept in mind:

1. Thinning- This process accelerates the circulation of air and provide greater area for seedlings to make them stronger and healthier. This is done by removing the crowded seedling in the seed box.



⁷ Free Royalty, <https://www.rawpixel.com/search?similar=436773&page=1>

⁸ Free Roaylty, <https://www.pxfuel.com/en/free-photo-qenqd>

2. Pricking- These refers to transferring of seedlings from one seedbox to another to provide more space for proper development of seedling. Water the seedling before pricking to make the soil smooth.



3. Hardening- The process can be done in 7 to 15 days before transplanting, to make the tissue of the plants harder to survive the rigors of transplanting.



⁹ Free Royalty, <https://pxhere.com/en/photo/348395>

¹⁰ Regina Rocha, Free Royalty, <https://www.wallpaperflare.com/gardening-soil-dirt-plant-planting-sapling-seeds-sow-wallpaper-wsywe>

¹¹ Box & Bay, Free Royalty, <https://boxandbay.com/2018/03/19/purging-the-plastic-seed-starting/>

B. Market Demands for Fruits



12 13



14 15



The Philippine fruit industry contributes much in the growth of its economy. The leading species grown in the country are Mango, Calamansi, Durian, Jackfruit, and Lanzones, based on volume of production which are available all year round in the market.

In line with growing health awareness and changing lifestyles, demand for the consumption of fruits is increasing.

Market demands for trees are created not only by their fruits but also by the seeds and seedlings farmers need in planting. Before deciding to market fresh fruits, growers should determine the time of harvesting, tips for storing, and the kind of marketing to do. The place where to market the fruits should be clear, and potential customers are to be identified in order to know how big the market demand is.

¹² Free Royalty, <https://www.pxfuel.com/en/free-photo-javxy/download>

¹³ Free Royalty, <https://www.pxfuel.com/en/free-photo-ohrrp>

¹⁴ Free Royalty, <https://pxhere.com/en/photo/951938>

¹⁵ Free Royalty, <https://www.pxfuel.com/en/free-photo-jepmm/download>

Harvesting, Storing and Marketing Fruits:

Harvesting fruits are usually done through picking when it is mature enough and ready to be sold to the market fresh and in good condition. Mangoes are harvested before it ripens; Pomelos and Chicos should be harvested at the right size and mature enough while Dalandan are harvested when they are still green.

In determining the exact time of harvesting, consider the price of fruits in the market. When there is plenty of fruits available, the price is low while harvest quantity is limited, the price is high.

Correct storing of fruits must be observed to maintain its good condition. There are perishable fruits like Avocado, Chico, Mango etc. These fruits should be sold while they are slightly ripened to avoid losses due to decay.

Length of storage of fruits before bringing to the market matters to make it taste better like Pomelo, but there are also fruits that need to be marketed immediately after the harvest.

Here are some tips in storing fruits: Do not mix the fruits, classify them according to ripeness, size, and shape. Use clean and durable wicker basket to store fruits in a clean, cool, and dry place away from ants, cockroach, and other harmful insects. Handle the fruits carefully especially when placing them in a box. Remember that, better products have higher price! Think of a place where fruits are to be marketed. Transport fruits to reach the market before it deteriorates to have better profit.

C. Famous Orchard Farm in the Country

To be more encouraged in planting fruit-bearing trees, read the following information on some orchard growers in our country:



• ¹⁶**Rosa Magsaysay** owns a 12.5-hectare mango-orchard in the coastal province of Zambales, home to the Philippine Carabao Mango. The farm is an agritourism destination and is open to walk-in guests who want to experience the ambiance of a real functional farm. David and Rosa taught the values of hardwork and perseverance to their children and the younger generations. These values, coupled with a strong sense of social responsibility and integrity, became the foundation of the family, with the farm being a constant reminder of these important lessons throughout the years. Today, Rosa's Farm is more than just a venue which provides you with the sweetest mangoes nurtured with patience, care, and true love.

¹⁶ Trickle irrigated mango plantation in the Burdekin Irrigation Area, Brandon, Free Royalty, <https://commons.wikimedia.org/wiki/>



▪ ¹⁷**Jose Mercado** is the Chairman of Merlo Agricultural Corp. He grew up in a coffee farm in Lipa, Batangas owned by his father and spent his childhood years helping him run the farm. He was inspired to continue this kind of business for this is something that he knew by heart. He put up his own coffee business and realized his dream to have a better life. Jose did not go to college but took up courses in accounting and taxation for he knew by then what he wanted to do. MERLO is a combination of his and his wife's last name – Mercado and Lopez. He is proud to say that his family is one of the pioneers in Batangas coffee industry. They bank on the quality of their coffee beans and roasting technique. In 1990, Jose developed his own blend which became a hit because of its flavor, and called it Cafe de Lipa, named after his hometown. He sells three brands of coffee – Batangas Brew, Cafe de Lipa, and Kapeng Barako which are all proven to be popular in the market until today.

▪ **JKN Fruit Farm**

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JKN fruit farm is located at Zone 3, Brgy. Concepcion, Talisay City, Granada Concepcion Road, Talisay, Negros Occidental. It is owned by Boy Trecho. Different fruit trees were planted in JKN fruit farm, like durian, lanzones, rambutan. The JKN fruit farm is a source of fruits during MARADULA Festival in Talisay City Negros Occidental. MARADULA Festival is named from the four fruits they had planted in JKN fruit farm. Marang and Mango, Rambutan, Durian and Lanzones. The festival is celebrated every 1st week of October, people who visited the farm may eat fruits as they can.

¹⁷ Coffee Plantation, Free Royalty, <https://commons.wikimedia.org/wiki/>

¹⁸ Lanzones, Free Royalty, <https://nl.m.wikipedia.org/wiki/>

¹⁹ Constantine Agustin, Free Royalty, <https://www.flickr.com/photos/>

- **Gil T. David Mango Farm** - Gil T. David is the owner of 10-hectare GIL T. DAVID Mango ORCHARD in the barrio of San Jose Isidro, Bacolor, Pampanga.

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- **Davao Golden Pomelo Farm, Davao City** - This farm is owned by Carmelito Mercado, a top pomelo producer and distributor in the Philippines. The farm has 350 hectares of sweet, pink, fresh pomelo.

21



- **Ben M. Santos Jackfruit Orchard** - This farm is a 5-hectare jackfruit farm located in Bataan owned by Ben himself.

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²⁰ Denisbin, Free Royalty, <https://www.flickr.com/photos/82134796@N03/36102802016>

²¹ Shankar S., Free Royalty, <https://www.flickr.com/photos/shankaronline/>

²² Jan Helebrant, Free Royalty, <https://www.needpix.com/photo/>

- **NICA’S Farm** - Nica’s farm is the biggest green rambutan plantation located in Barangay Lapaz, Tibiao, Antique. She has also red rambutan, bananas, durian, lanzones, pomelo and other fruits.

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Orchard growers in the community or adjacent communities:

After learning about some famous orchard farm in the country, you are now going to familiarize yourself with locally grown fruit – bearing trees:

1. Villafranca Fruit Farm

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One of the products of Himamaylan City is from the Villafranca Fruit farm. This farm was owned by Martin “Mavie” Villafranca located in Sitio Tongo Barangay Cabadiangan, Himamaylan City, Negros Occidental. They plant fruits like rambutan, lanzones, marang, and mango and they harvested abundance of fruits every year.

²³ Free Royalty, <https://www.wallpaperflare.com/fruits-rambutan-fresh-growth-healthy-eating-food-food-and-drink-wallpaper-whpnn>

²⁴ Constantine Agustin, Free Royalty, <https://www.flickr.com/photos/>

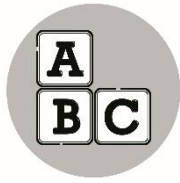
2. Rambutan Farm in Sitio Paloypoy, Brgy. Buenavista, Himamaylan City Negros Occidental owned by Priscilo Pajarillo Cardinez.

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3. Kamunsil Integrated Farm in San Enrique, Negros Occidental. It is a sprawling 1.3-hectare plantation of fruit trees and vegetables organically grown by owner Abner Jardinico.
4. Mango Plantation in Hda. Monteverde Brgy. Purisima owned by Dr. Ramon B. Gustilo. in Manapla, Negros Occidental.
5. Mango Plantation in Hda. Gaston, Brgy. Punta Mesa owned by Joey Gaston in Manapla, Negros Occidental.
6. Lansones and Rambutan Plantation in Murcia, Negros Occidental Owned by Mr. and Mrs. Seva.

²⁵ Soo Ann Woon, Free Royalty, <https://www.pexels.com/photo/>



What's More

Independent Activity 1

For this activity, please get your answers from words or group of words that are found inside the box: Write the letter your answer to separate sheet of paper.

- a. Communicate the Survey's Purpose
- b. Analyze and Act Upon the Results
- c. Proper Care of the plants and soil
- d. Methods of Planting
- e. Pricking
- f. Define Your Survey's Objectives
- g. Thinning
- h. Hardening
- i. Transplanting
- j. Prioritize your Questions

Independent Assessment 1

- _____ 1. The process can be done in 7 to 15 days before transplanting, to make the tissue of the plants harder to survive the rigors of transplanting.
- _____ 2. It is the process where seedling is transferred from one seed box to other containers to provide more space for proper development of seedling.
- _____ 3. It is one of the steps in online survey that requires you to define what you really want to know and state the problem/s you need to solve.
- _____ 4. A step in conducting online survey where data are gathered to be presented in spreadsheets, presentation programs and statistical software.
- _____ 5. When planting trees and fruit-bearing trees, farmers need a wider space for plants to grow and be productive. The kind of soil as well as the amount of sunlight that the trees can have should also be considered.

Independent Activity 2

On this activity, you are given the steps in conducting online survey with its description. Answer the questions ask as you prepare to do an online survey regarding the market demand of fruits in your locality.

Table 1:

Steps in Conducting Online Survey	Description of the Steps in Conducting Online Survey
A. Communicate the Survey's Purpose	a. Survey questions must be specific and must be related to your goals and objectives set.
B. Prioritize your Questions	b. Who are the participants in your survey?
C. Analyze and Act Upon the Results	c. Defining what you really want to know and stating the problem/s you need to solve are important.
D. Identify your Target Audience	d. The use of technology is unpredictable so think ahead on how to troubleshoot the process.
E. Test the Survey;	e. Inform your survey participants about its purpose and how these data become useful in improving the activities, products or services you have.
F. Define Your Survey's Objectives	f. Gather these results and begin analyzing the data as needed in spreadsheets, presentation programs and statistical software. Implement results.

Independent Assessment 2

1. Write the LETTER corresponding to the correct steps in conducting an online survey in Table 2. Get your answer from the given information in Table 1.
2. Give the description of each step from Table 1 to guide you in preparing your online survey.
3. What is/are the objective/s of your survey to be conducted?
4. List down all your proposed target participants in this online survey.
5. Fill-in sample activity column with data required by each step based from description.

Table 2:

	Correct Steps in Conducting Online Survey	Description of each Step in Conducting Online Survey	Sample Activity in doing Online Survey for Market Demands of Fruits
1			
2			
3			
4			
5			
6			



What I Have Learned

1. The 4 elements to be observed in planting trees and fruit-bearing trees to gain more products are _____.
2. _____ is the process that accelerates the circulation of air and provide greater area for seedlings to make them stronger and healthier? This is done by removing the crowded seedling in the seed box.
3. _____ is to be considered in determining the exact time of harvesting.
4. The correct time of harvest depends on the _____, the place to market and _____.
5. _____ is an area to consider in planting fruit-bearing trees in line with growing health awareness and changing lifestyles.
6. There are two methods in planting trees. _____ is a method of planting seeds directly into the ground or plot. _____ is planting seeds in a seed box or plastic container, fully grown seedlings are transplanted to the ground or plot.
7. Give two situations that affect the market demand of fruits in the marketplace _____
8. In what way are you encouraged by the stories of orchard growers in the country and nearby communities? _____



What I Can Do

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- Based from the pictures shown above, write a short paragraph on how trees and fruit-bearing trees can help your family's income and community.

²⁶ Farm of Silveria A. Baton in Danao, Cebu, Free Royalty, <https://commons.wikimedia.org/wiki/>

²⁷ Lanzones, Free Royalty, <https://nl.m.wikipedia.org/wiki/>

²⁸ Kristina Gain, Free Royalty, <https://www.pexels.com/photo/>

²⁹ USAID Biodiversity & Forestry, Free Royalty, <https://www.goodfreephotos.com/philippines/>



Assessment

Choose the letter of the best answer. Write it on a separate sheet of paper.

1. A well-known orchard that celebrate “MARADULA FESTIVAL” located at Talisay City, Negros Occidental
 - a. JKN Fruit Farm
 - b. Nica’s Farm
 - c. Rosa Mango Farm
 - d. Villafranca Fruit Farm

2. Inform your survey participants about its purpose and how these data become useful in improving the activities, products or services you have. What step in conducting online survey is being described by the statement?
 - a. Analyze and Act Upon the Results
 - b. Communicate the Survey’s Purpose
 - c. Identify your Target Audience
 - d. Prioritize your Questions

3. Usually done through picking when it is mature enough and ready to be sold to the market fresh and in good condition.
 - a. Harvesting Fruits
 - b. Marketing Fruits
 - c. Planting Seedlings
 - d. Seed Germination

4. A way of transferring seedlings from one seed box to another to provide more space for proper development of seedling is called _____.
 - a. Hardening
 - b. Pricking
 - c. Thinning
 - d. Weeding

5. It is the development or growth of a seed into a young plant that influence harvest and the quality of tree products. This process needs water or moisture, warmth, oxygen, and sunlight for seeds to grow in either a seed box, plastic container or other wrappers.
 - a. Hardening
 - b. Pricking
 - c. Seed Germination
 - d. Transplanting

6. Method of planting seeds directly into the ground or plot. These are seeds with high percentage of germination, correct moisture content and free from seed pest, diseases, and other impurities.
 - a. Alternative Method
 - b. Direct-seeding Method
 - c. Indirect planting Method
 - d. Transplanting Method

7. This process is done 7 to 15 days before transplanting, to make the tissue of the plants survive the rigors of transferring the seedlings.
 - a. Hardening
 - b. Pricking
 - c. Seed Germination
 - d. Transplanting

8. These are to be avoided in attacking the trees. Just in case they manifest, control them by building a fire for smoke to enter the leaves and stem naturally.
 - a. Ants and diseases
 - b. Fungi and mosquitos
 - c. Insects and pest
 - d. Pest and diseases

9. _____ is an area to consider in planting fruit-bearing trees in line with growing health awareness and changing lifestyles.
 - a. Available place for planting trees
 - b. Famous orchards in the community
 - c. Market demand for fruit
 - d. Sources of trees and fruit-bearing trees

10. What element or factor in planting trees and fruit-bearing trees is being described by the following phrases?
 - I. Care plants and soil
 - II. Add enough fertilizer
 - III. Select good seeds
 - IV. Choose the right place
 - a. Methods of planting
 - b. Preparation of seedlings
 - c. Proper care of the plants and soil
 - d. Seed Germination



Additional Activities

Conduct a survey on orchard growers in your community. Ask them how their farm production has contributed to their family's financial needs based on what you have learned in this module. Publish your survey results using electronic presentation.

Name of Orchard Grower	Location of the Farm	Kind of Trees/ Fruit-bearing Trees Planted	Quantity of Trees Planted	Grower's Responses to Survey Questions



Answer Key

Assessment	What's More	What I Know
1. a	Independent	1. D
2. b	Assessment 1	2. K
3. a	1. H	3. I
4. b	2. E	4. F
5. c	3. F	5. L
6. b	4. B	6. H
7. a	5. C	7. C
8. c	Independent	8. J
9. c	Assessment 2	9. B
10. c	1. F, D, B, E, A, C	10. A
	2. c, b, a, d, e, f	
	3. answer may differ	
	4. answer may differ	
	5. answer may differ	

References

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