

Scope and Sequence Chart

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
UNIT 1				
HOME ECONOMICS				
Chapter 1				
Caring for Oneself While Growing Up				
Lesson 1 Physical Development of Boys and Girls	<ul style="list-style-type: none"> • Nagagampanan ang tungkulin sa sarili sa panahon ng pagdadalaga o pagbibinata 	<ul style="list-style-type: none"> • Comparing in class a boy and a girl of the same age 	<ul style="list-style-type: none"> • Observe physical changes in boys • Observe physical changes in girls • Determine physical differences in boys and girls 	<ul style="list-style-type: none"> • Short quiz (<i>Think and Remember</i> from the worktext) • Performance task
Lesson 2 Understanding Changes in Oneself	<ul style="list-style-type: none"> • Naipaliliwanag ang mga pagbabagong pisikal na • nagaganap sa sarili sa panahon ng pagdadalaga at pagbibinata • Natutukoy ang mga pagbabagong pisikal sa sarili tulad ng pagkakaroon ng • tagiyawat, pagtubo ng buhok sa iba't 	<ul style="list-style-type: none"> • Showing of video on physical changes • Lively classroom engagement 	<ul style="list-style-type: none"> • Appreciate the changes and their effects on one's attitudes and emotions • Show ways on how to cope with physical changes 	<ul style="list-style-type: none"> • Exchanging ideas on physical changes • Short quiz (<i>Think and Remember</i> from the worktext) • Performance task

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	ibang bahagi ng katawan, at labis na pagpapawis <ul style="list-style-type: none"> • Naipakikita ang kamalayan sa pang-unawa sa • pagbabago ng sarili at sa pag-iwas sa panunukso • Naipaliliwanag kung paano maiiwasan ang panunukso dahil sa mga pagbabagong pisikal 			
Lesson 3 Proper Bodily Care and Good Health Habits	<ul style="list-style-type: none"> • Natatalakay ang mga paraang dapat isagawa sa panahon ng pagbabagong pisikal tulad ng paliligo at paglilinis ng katawan • Naisasaugali ang pagtupad ng tungkulin sa sarili • Nasasabi ang mga kagamitan at wastong paraan sa paglilinis at pag-aayos ng sarili • Naipakikita ang 	<ul style="list-style-type: none"> • Discussion on differences of male and female reproductive parts 	<ul style="list-style-type: none"> • Practice good health habits and proper body care in coping with physical changes 	<ul style="list-style-type: none"> • Short quiz (<i>Think and Remember</i> from the worktext) • Performance task

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	<p>wastong pamamaraan sa paglilinis at pag-aayos</p> <ul style="list-style-type: none"> • Nasusunod ang iskedyul ng paglilinis at pag-aayos ng sarili • Napapanatiling maayos ang sariling tindig • Naipakikita ang maayos na pag-upo pagtayo at paglakad, wastong pananamit at magalang na pananalita • Naisasaugali ang pagkain ng masusustansyang pagkain, pag-iwas sa sakit at di-mabuting mga gawain sa kalusugan 			
<p>Lesson 4 Care of Clothes and Personal Belongings</p>	<ul style="list-style-type: none"> • Napangangalagaan ang sariling kasuotan • Naiisa-isa ang mga paraan upang 	<ul style="list-style-type: none"> • Discussion • Demonstration • Sorting clean clothes from soiled 	<ul style="list-style-type: none"> • Take care of one's clothes • Wear appropriate attire for an 	<ul style="list-style-type: none"> • Short quiz (<i>Think and Remember</i> from the worktext) • Performance task

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	<p>mapanatiling malinis ang kasuotan</p> <ul style="list-style-type: none"> • Naisasa-ayos ang payak na sira ng damit sa pamamagitan ng pananahi sa • kamay tulad ng pagsusulsi ng punit sa damit o pagtatahi ng tastas • Naisasagawa ang pagsusulsi ng iba't ibang uri ng punit • Naisasagawa ang wastong paraan ng paglalaba • Napaghihiwalay ang mga puti at di-kulay na damit • Nakikilala at Naaalis ang mantsa sa damit sa tamang paraan • Naisasagawa ang wastong paraan ng pamamalantsa • Nasususunod ang batayan ng tamang pamamalantsa 	<p>clothes</p> <ul style="list-style-type: none"> • Showing how to attach a two-hole button and a four-hole button • Observing the sorting and laundering of dirty clothes • Using the appropriate stain remover • Ironing sleeves first before the bodice and the shirt • Modelling actual holding of a flat iron • Removing bags from desk to be able to sit properly and to develop correct posture • Inspecting proper school uniform 	<p>occasion</p> <ul style="list-style-type: none"> • Follow the proper steps when washing clothes • Employ proper techniques in ironing and hanging of clothes 	

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	<ul style="list-style-type: none"> Naipakikita ang wastong paraan ng pamamalantsa at wastong paggamit ng plantsa 			
Chapter 2 Taking Care of Your Home				
Lesson 1 Parts of the House	<ul style="list-style-type: none"> Natutupad ang mga tungkulin sa pag-aayos ng tahanan Natutukoy ang mga bahagi ng tahanan at mga gawain dito 	<ul style="list-style-type: none"> Discussion Demonstration Group work Practical laboratory work 	<ul style="list-style-type: none"> Identify the parts of the house Identify the activities done in each part of the house 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task
Lesson 2 Housekeeping Tools and Equipment	<ul style="list-style-type: none"> Nakapagsasaliksik gamit ang teknolohiya upang malaman ang mga kagamitan at kasangkapan Naitatala at nagagawa ang mga kagamitan at kasangkapan sa pag-aayos ng tahanan 	<ul style="list-style-type: none"> Discussion Demonstration Group work Practical laboratory work 	<ul style="list-style-type: none"> Enumerate the different housekeeping tools and equipment Demonstrate the proper use of housekeeping tools and materials 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task
Lesson 3 Cleaning of the Home and its Surroundings	<ul style="list-style-type: none"> Nakapagsasaliksik gamit ang tenolohiya upang malaman ang ibat-ibang paraan ng 	<ul style="list-style-type: none"> Discussion Demonstration Group work Laboratory work 	<ul style="list-style-type: none"> Describe the steps in cleaning the house Organize a house cleaning session 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task

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	pag-aayos ng tahanan, mga kagamitan, at kasangkapan <ul style="list-style-type: none"> • Nasusuri ang ginawang pagsasaayos at nababago ito kung kinakailangan 		with the family <ul style="list-style-type: none"> • Use appropriate tools in cleaning the house and its surroundings 	
Lesson 4 Housekeeping Schedule	<ul style="list-style-type: none"> • Nakagagawa ng plano ng pag-aayos • Nakapagsasaliksik gamit ang teknolohiya upang malaman ang ibat-ibang paraan • ng pag-aayos ng tahanan, mga kagamitan, at kasangkapan 	<ul style="list-style-type: none"> • Discussion • Demonstration • Group work • Practical laboratory work 	<ul style="list-style-type: none"> • Define <i>housekeeping</i> • Plan and prepare a housekeeping work schedule 	<ul style="list-style-type: none"> • Written test: <i>Think and Remember</i> from worktext • Performance task
Lesson 5 Home Furnishings	<ul style="list-style-type: none"> • Naisasagawa ng pagsasaayos at pagpapaganda ng tahanan • Nakalilikha ng mga kagamitang panghalili mula sa ibat-ibang uri ng materyales na magagamit sa pag-aayos ng tahanan 	<ul style="list-style-type: none"> • Discussion • Demonstration • Group work • Practical laboratory work 	<ul style="list-style-type: none"> • Identify the use of home furnishings for different in the house • Describe and compare home furnishings 	<ul style="list-style-type: none"> • Written test: <i>Think and Remember</i> from worktext • Performance task

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Lesson 6 Making the Home Comfortable and Pleasing	<ul style="list-style-type: none"> Naisasagawa ang pagsasaayos at pagpapaganda ng tahanan 	<ul style="list-style-type: none"> Discussion Demonstration Group work Practical laboratory work 	<ul style="list-style-type: none"> Observe proper placement and arrangement of home furniture and accessories Appreciate the use of home furnishings and accessories 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task
Chapter 3 Nutritious and Adequate Food for the Family				
Lesson 1 The Family Meals	<ul style="list-style-type: none"> Naisasaugali ang pagkain ng masustansyang pagkain at pag-iwas sa sakit at dimabuting mga gawain sa kalusugan 	<ul style="list-style-type: none"> Discussion Group work Sharing sessions Practical laboratory activities Video viewing Role playing 	<ul style="list-style-type: none"> Identify the family meals eaten during the day Name the food taken during family meals Define <i>nutritious food</i> 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task
Lesson 2 Planning Nutritious Meals for the Family	<ul style="list-style-type: none"> Naisasagawa ang pagpapalano at pagluluto ng masustansyang pagkain para sa almusal, tanghalian, at hapunan ayon sa budget ng pamilya Natutukoy ang mga salik sa pagpapalano ng pagkain ng 	<ul style="list-style-type: none"> Discussion of Importance of the Food Pyramid in planning meals and The Meal Patterns Group Work (Sharing Sessions, Selecting Recipes for the Family Meals) 	<ul style="list-style-type: none"> Plan nutritious meals for the family Utilize the basic food groups and food pyramid as a guide in planning nutritious meals 	<ul style="list-style-type: none"> Written test: <i>Think and Remember</i> from worktext Performance task

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	<p>pamilya, tulad ng bilang ng kasapi, gulang ng mga miyembro, at iba pa</p> <ul style="list-style-type: none"> • Naisasaalang-alang ang mga sangkap na nakikita sa paligid • Nakagagawa ng menu para sa isang araw batay sa <i>food pyramid</i> o pangkat ng pagkain 	<ul style="list-style-type: none"> • Practical laboratory activities (menu planning for breakfast, lunch and supper) • Video viewing • Role playing 		
<p>Lesson 3 Guides in Buying Food Wisely</p>	<ul style="list-style-type: none"> • Naisasagawa ang pamamalengke ng mga sangkap sa pagluluto • Naipakikita ang husay sa pagpili ng sariwa, mura, at masustanyang sangkap • Nakapagkukuwenta nang mahusay sa pamamalengke 	<ul style="list-style-type: none"> • Group Work (sharing sessions, identifying different kinds of markets) • Practical laboratory activities (buying ingredient /foods from the market) • Video viewing • Role playing 	<ul style="list-style-type: none"> • Recognize the places where to buy food wisely • Prepare a budget and shopping list for food 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task
<p>Lesson 4 Preparation and Cooking of Meals</p>	<ul style="list-style-type: none"> • Naisasagawa ang pagluluto • Naihahanda ang mga sangkap sa pagluluto • Nasusunod ang mga tuntuning 	<ul style="list-style-type: none"> • Discussion: Cooking methods, safety rules in cooking and food preparation • Demonstration: 	<ul style="list-style-type: none"> • Use appropriate kitchen tools in food preparation • Cook a one-dish meal • Practice safety rules 	<ul style="list-style-type: none"> • Written Test <i>Think and Remember</i> from the worktext • Performance task

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	<p>pangkalusugan at pangkaligtasan sa paghahanda at pagluluto ng pagkain</p> <ul style="list-style-type: none"> • Di paggamit ng mga sangkap na may <i>food artificial additives</i> 	<p>Food preparation techniques</p> <ul style="list-style-type: none"> • Practical work: Cooking a one dish meal 	<p>in cooking and food preparation</p> <ul style="list-style-type: none"> • Follow recipes accurately 	
<p>Lesson 5 Serving the Family Meals</p>	<ul style="list-style-type: none"> • Naihahanda ang nilutong pagkain sa hapag kainan sa kaakit-akit na paraan • Nakalilikha ng ilang paraan ng kakit-akit na paghahanda ng pagkain • Naipaliliwanag ang dapat tandaan/mga alituntunin sa paghahanda ng mesa at paghahain (principles in table setting) 	<ul style="list-style-type: none"> • Discussion: How to set a table for family meals • Demonstration: Serving the cooked food using appropriate table appointments such as plates and spoons and forks, setting the table using the style of table service 	<ul style="list-style-type: none"> • Set the table for family meals • Demonstrate proper table manners when eating • Clear and tidy up the table after meals 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task
<p>Chapter 4 Learning to Sew by Machine</p>				
<p>Lesson 1 Parts of the Sewing Machine</p>	<ul style="list-style-type: none"> • Natutukoy ang mga bahagi ng di-padyak na makinang panahi 	<ul style="list-style-type: none"> • Discussion: Parts of the sewing machine 	<ul style="list-style-type: none"> • Identify the parts of a sewing machine 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext

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	<ul style="list-style-type: none"> • Nakagagamit ng makinang panahi at kamay sa pagbuo ng mga kagamitang pambahay 	<ul style="list-style-type: none"> • Demonstration: The use of the parts of the sewing machine • Practical work: Identifying the parts of the sewing machine • Viewing video clips 	<ul style="list-style-type: none"> • Recognize the functions of each part of a sewing machine 	<ul style="list-style-type: none"> • Performance task
<p>Lesson 2 Basic Sewing Tools and Equipment</p>	<ul style="list-style-type: none"> • Naipakikita ang wasto at maingat na paraan ng paggamit ng makinang panahi 	<ul style="list-style-type: none"> • Discussion on: The classification of sewing tools and equipment • Demonstration: Threading the sewing machine • Viewing video clips 	<ul style="list-style-type: none"> • Familiarize oneself with the use of the basic sewing tools and equipment • Classify the sewing tools and equipment as measuring tools, cutting tools, and sewing tools 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task
<p>Lesson 3 Basic Operation of the Sewing Machine</p>	<ul style="list-style-type: none"> • Natatalakay at naipakikita ang wasto at maingat na paraan ng paggamit ng makinang panahi 	<ul style="list-style-type: none"> • Discussion: Steps in operating the sewing machine • Demonstration: Treadling • Practical Work: Correct treadling • Viewing video clips 	<ul style="list-style-type: none"> • Perform the basic operation of the sewing machine • Familiarize oneself with the proper ways of treadling • Treadle the sewing machine correctly • Observe safety rules in sewing 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

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<p>Lesson 4 Safety Rules in Sewing</p>	<ul style="list-style-type: none"> Natatalakay at naipakikita ang wasto at maingat na paraan ng paggamit ng makinang panahi 	<ul style="list-style-type: none"> Discussion: Safety rules in sewing using the sewing machine Demonstration: How to set the needle Practical Work: Threading the upper and lower part of the sewing machine Viewing video clips 	<ul style="list-style-type: none"> Practice safety rules when sewing Become aware of the possible accidents when sewing 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task
<p>Lesson 5 Sewing Project for the Home: Learning to Sew a Throw Pillowcase</p>	<ul style="list-style-type: none"> Nakagagamit ng makinang panahi at kamay sa pagbuo ng mga kagamitang pambahay 	<ul style="list-style-type: none"> Discussion: The steps in making a throw pillow Demonstration: Selecting a fabric for a throw pillow Practical work: Cutting the pattern, basting, and sewing 	<ul style="list-style-type: none"> Create and sew a throw pillowcase Use the basic hand stitches for basting before using the machine stitch Follow the steps in making a throw pillowcase 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task

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UNIT 2				
AGRICULTURE				
Chapter 1				
Planting and Propagating Vegetables				
Lesson 1 Importance of Vegetable Gardening	<ul style="list-style-type: none"> Natatalakay ang kapakinabangan sa pagtatanim ng halamang gulay para sa sarili, pamilya, at pamayanan 	<ul style="list-style-type: none"> Lecture-Discussion Survey Individual reporting 	<ul style="list-style-type: none"> Become aware of the importance of vegetable gardening for the gardener, family, and community Gather data on vegetable gardens owned by families in the community 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task
Lesson 2 Planning a Vegetable Garden	<ul style="list-style-type: none"> Nakapagsasagawa ng survey upang malaman ang mga halamang gulay na maaaring itanim 	<ul style="list-style-type: none"> Lecture-Discussion Actual visitation of a home garden 	<ul style="list-style-type: none"> Determine the factors to consider in vegetable gardening Identify vegetables that can be grown the whole year round 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task
Lesson 3 Steps in Vegetable Gardening	<ul style="list-style-type: none"> Naipakita ang pamamaraan sa pagtatanim ng gulay 	<ul style="list-style-type: none"> Discussion Group activity on planting Comparative data on seed germination 	<ul style="list-style-type: none"> Enumerate the steps in preparing a plot for vegetable gardening Discuss the steps 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task

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		<ul style="list-style-type: none"> • Demonstration 	<p>in taking care of plants</p> <ul style="list-style-type: none"> • Differentiate direct and indirect planting • Demonstrate how to take care of plants 	
<p>Lesson 4 Preparing Organic Fertilizer</p>	<ul style="list-style-type: none"> • Natatalakay ang kahalagahan at pamamaraan ng paggawa ng abonong organiko 	<ul style="list-style-type: none"> • Lecture-Discussion • Comparative steps in the two methods of preparing organic fertilizer • Laboratory method of preparing compost • Observation and evaluation of prepared compost 	<ul style="list-style-type: none"> • Define <i>organic fertilizer</i> • Discuss the steps in preparing liquid and compost • Prepare compost fertilizer • 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task
<p>Lesson 5 Pest Control</p>	<ul style="list-style-type: none"> • Naipakikita ang masistemang pagsugpo ng peste at kulisap ng halaman 	<ul style="list-style-type: none"> • Discussion • Slide show presentation of the different pests and 	<ul style="list-style-type: none"> • Determine the different methods used in controlling garden pest 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

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		diseases of plants • Interview of a gardener	• Perform the different methods on pest control	
Lesson 6 Harvesting and Marketing Vegetables	• Naipakikita ang masistemang pag-aani ng tanim • Natatalakay ang mga palatandaan ng tanim na ito ay maaari nang anihin	• Lecture-Discussion • Observation • Internet search/surfing	• Identify the characteristics of vegetables ready for harvesting • Determine the steps in post-harvest handling	• Written Test: <i>Think and Remember</i> from the worktext • Performance task
Chapter 2 Raising Two-Legged and Winged Animals and Fishes				
Lesson 1 Raising Chicken	• Naipakikita ang kaalaman, kasanayan, at kawilihan sa pag-aalaga ng manok	• Lecture-Discussion • Comparative study on ways of raising chickens	• Enumerate the ways on how to raise chickens successfully • Differentiate free range and confinement method of raising chickens	• Written Test: <i>Think and Remember</i> from the worktext • Performance task
Lesson 2 Duck Raising	• Naipakikita ang kaalaman, kasanayan at kawilihan sa pag-aalaga ng itik	• Lecture-Discussion • Group activity: salted egg preparation	• Identify and enumerate the different breeds and types of ducks according to purpose	• Written Test: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
			<ul style="list-style-type: none"> • Determine the ways on how to raise ducks successfully • Prepare salted duck eggs 	
<p>Lesson 3 Quail Raising</p>	<ul style="list-style-type: none"> • Naipakikita ang kaalaman, kasanayan, at kawilihan sa pag-aalaga ng pugo 	<ul style="list-style-type: none"> • Lecture-Discussion • Group activity • Laboratory and observation on the preparation of quail eggs sarciado 	<ul style="list-style-type: none"> • Identify and enumerate the common breeds of quails • Enumerate ways for successful quail raising • Determine the advantages in raising quails • Prepare a dish using quail eggs as main ingredients 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task
<p>Lesson 4 Raising Tilapia</p>	<ul style="list-style-type: none"> • Naipakikita ang kaalaman, kasanayan, at kawilihan sa pag-aalaga ng tilapia 	<ul style="list-style-type: none"> • Discussion 	<ul style="list-style-type: none"> • Enumerate the tips on successful tilapia raising • Research on other fish types that can be grown in backyard ponds 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

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UNIT 3 INDUSTRIAL ARTS				
Chapter 1 Woodworking, Metalworking, and Bamboo Crafts				
Lesson 1 Materials in Woodworking, Metalworking, and Bamboo Crafts	<ul style="list-style-type: none"> • Natatalakay ang mga mahalagang kaalaman at kasanayan sa gawaing kahoy, metal, kawayan, at iba pang lokal na materyales sa pamayanan • Nakapagsasagawa ng survey gamit ang teknolohiya at ibang paraan ng pagkalap ng datos upang malaman ang mga iba't-ibang produktong mabibili gawa sa iba't-ibang materyales, disenyong ginamit, kagamitan, at pamamaraan sa pagbuo, at pangangailangan sa pamilihan (market 	<ul style="list-style-type: none"> • Interactive discussion • Video viewing 	<ul style="list-style-type: none"> • Recognize the different materials used in woodworking, metal working, and bamboo arts and crafts • Identify materials used in different woodwork, metalwork, and bamboo products 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

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	demands) <ul style="list-style-type: none"> Nakapagtatala ng iba pang disenyo at materyales na maaring magamit o pagsamasamahin upang makagawa ng malikhaing produkto batay sa nakalap na datos 			
Lesson 2 Tools Used in Woodworking, Metalworking, and Bamboo Arts and Crafts	<ul style="list-style-type: none"> Natutukoy ang mga uri ng kagamitan at kasangkapan sa gawaing kahoy, metal, kawayan, at iba pa Natatalakay ang mga uri ng kagamitan at kasangkapan sa gawaing kahoy, metal, kawayan, at iba pa 	<ul style="list-style-type: none"> Interactive discussion Identifying pictures 	<ul style="list-style-type: none"> Identify and enumerate the different tools used in metalworking, woodworking, and bamboo crafts Conduct an interview to a metalworker, woodworker, or bamboo crafts maker 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task
Lesson 3 Basic Processes in Woodworking, Metalworking and Bamboo Arts and Crafts	<ul style="list-style-type: none"> Nakagagawa ng mga malikhaing proyekto na gawa sa kahoy, metal, kawayan, at iba pang materyales na 	<ul style="list-style-type: none"> Discussion Identifying pictures Viewing videos 	<ul style="list-style-type: none"> Know the different processes in metal working, woodworking, and bamboo arts 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task

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	makikita sa komunidad <ul style="list-style-type: none"> • Nasusunod ang mga panuntunang pagkalusugan at pangkaligtasan sa paggawa 		and crafts <ul style="list-style-type: none"> • Practice some of the basic processes in woodworking , metal working, and bamboo crafts • Make a plan on how to make a woodwork, metalwork, or bamboo arts and crafts product using the correct tools 	
Chapter 2 Basic Knowledge and Skills in electricity				
Lesson 1 Basic Electricity	<ul style="list-style-type: none"> • Natatalakay ang mga kaalaman at kasanayan sa gawaing elektrisidad • Natutukoy ang mga materyales at kagamitan na ginagamit sa gawaing elektrisidad 	<ul style="list-style-type: none"> • Discussion of the meaning of electricity and the basic electricity we see in some houses 	<ul style="list-style-type: none"> • Acquire the basic knowledge and skills in electricity • Conduct an interview regarding the important things one should know about electricity 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
	<ul style="list-style-type: none"> Nagagamit ang kasangkapan at kagamitan sa gawaing elektrisidad 			
<p>Lesson 2 Making Simple Electrical Gadgets</p>	<ul style="list-style-type: none"> Nakagagawa ng proyekto na ginagamitan ng elektrisidad Nakabubuo ng plano ng proyekto na nakadiseno mula sa ibat-ibang materyales na makikita sa pamayanan (hal., kahoy, metal, kawayan, atbp) na ginagamitan ng elektrisidad na maaaring mapapagkakakitaan Nasusuri ang ginawang produkto at naisasaayos ito batay sa sarili at mungkahi ng iba gamit ang rubrics Naisasapamilihan ang mga nagawang produkto gamit ang 	<ul style="list-style-type: none"> Discussion of processes in making simple electrical gadgets 	<ul style="list-style-type: none"> Determine the necessary steps when making a simple electrical gadget Make a basic electrical gadgets that can be utilized at home 	<ul style="list-style-type: none"> Written Test: <i>Think and Remember</i> from the worktext Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
	natutunang <i>productivity tools</i> <ul style="list-style-type: none"> • Naipapakete ang nabuong proyekto bago ipagbili • Napapamahalaan ang kinita • Natutuos ang puhunan at kita • Nakagagawa ng plano ng bagong produktong gagawin mula sa kinita 			
Chapter 3 Simple Repairs of Household and School Furniture				
Lesson 1 Simple Repairs of Household and School Furniture	<ul style="list-style-type: none"> • Nalalapatan ng angkop na panghuling ayos(<i>finishing</i>) ang nabuong produkto • Natutukoy ang iba't ibang paraan ng panghuling ayos (pagliha, pagpintura, at pagbarnis) • Nasusundan ang wastong paraan ng pagliliha, 	<ul style="list-style-type: none"> • Discussion and demonstration of the lesson (step-by step process) 	<ul style="list-style-type: none"> • Identify and enumerate the basic repair and maintenance methods for household and school furniture • Identify the difference between methods in maintaining furniture 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
<p>Lesson 2 Common Spots, Defects, and Possible Cures</p>	<p>pagpipintura, o pagbabarnis</p> <ul style="list-style-type: none"> • Naisasagawa ang payak na pagkukumpuni ng mga sirang kagamitan at kasangkapan sa tahanan o sa paaralan • Natatalakay ang kahalagahan ng kaalaman at kasanayan sa pagkukumpuni ng mga sirang kagamitan sa tahanan o paaralan • Natutukoy ang mga kasangkapan/ kagamitan sa pagkukumpuni at ang wastong paraan ng paggamit nito 	<ul style="list-style-type: none"> • Discussion and demonstration of the step-by step process 	<ul style="list-style-type: none"> • Spot common defects on wooden furniture • Apply the appropriate curing method on defected wooden furniture 	<ul style="list-style-type: none"> • Written Test: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
UNIT 4 ICT AND ENTREPRENEURSHIP				
Chapter 1 Information and Communication Technology (ICT)				
Lesson 1 Introduction to Sharing of Documents and Media File	<ul style="list-style-type: none"> • Naipapaliwanag ang mga panuntunan sa pamamahagi ng mga dokumento at <i>media file</i> • Nakapamahagi ng mga dokumento at <i>media files</i> sa ligtas at responsableng pamamaraan • Naipapaliwanag ang mga panuntunan sa pagsali sa <i>discussion forum</i> at <i>chat room</i>. • Nakasasali sa <i>discussion forum</i> at <i>chat</i> sa ligtas at responsableng pamamaraan 	<ul style="list-style-type: none"> • Discussion • Demonstration and practical application 	<ul style="list-style-type: none"> • Recognize the different media used in sharing digital files • Apply one's knowledge in file sharing 	<ul style="list-style-type: none"> • Venn diagram: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
<p>Lesson 2 The Search Engine: Website and Bookmarks</p>	<ul style="list-style-type: none"> • Nagagamit ang <i>advanced features</i> ng isang <i>search engine</i> sa pangangalap ng impormasyon • Natutukoy ang angkop na <i>search engine</i> sa pangangalap ng impormasyon • Natitiyak ang kalidad ng impormasyong nakalap at ng mga <i>website</i> na pinanggalingan nito • Nakakapag-<i>bookmark</i> ng mga website • Naisasaayos ang mga <i>bookmarks</i> 	<ul style="list-style-type: none"> • Discussion of the lesson by showing actual websites and actual bookmarks • Hands-on activity • Video viewing 	<ul style="list-style-type: none"> • Use the features of the search engines • Define and utilize bookmarks • Identify the different search engines 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task
<p>Lesson 3 Electronic Spreadsheets</p>	<ul style="list-style-type: none"> • Nakagagawa ng diagram ng isang proseso gamit ang word processing tool • Nakagamit ng mga <i>basic function</i> at <i>formula</i> sa <i>electronic</i> 	<ul style="list-style-type: none"> • Discussion of the spreadsheet accompanied with illustrations • PowerPoint presentation • practical applications 	<ul style="list-style-type: none"> • Recognize the parts of an electronic spreadsheet • Realize how the electronic spreadsheet works 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
	<p><i>spreadsheet</i> upang malagom ang datos</p>		<ul style="list-style-type: none"> • Practice opening and saving spreadsheet documents • Utilize the spreadsheet features in encoding data 	
<p>Lesson 4 Online Forums and Chats</p>	<ul style="list-style-type: none"> • Nakasusunod sa usapan sa <i>online discussion format chat</i> • Nakakapag-<i>post</i> ng sariling mensahe sa <i>discussion format chat</i> • Nakakapagsimula ng bagong <i>discussion thread</i> o nakakabuo ng sariling <i>discussion group</i> 	<ul style="list-style-type: none"> • Discussion • Video viewing • Poster making 	<ul style="list-style-type: none"> • Appreciate how online chats and forums work • Enumerate the benefits in participating in an online forum or chat • List down the negative effects of excessive forum and chat usage • Make a list netiquettes or considerations when doing online chat and forum 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
<p>Lesson 5 Posting a Message and Sharing a Website</p>	<ul style="list-style-type: none"> Nakapamamahagi ng <i>media file</i> gamit ang isang <i>file sharing website</i> sa discussion forum 	<ul style="list-style-type: none"> Discussion of the lesson's concepts Hands on activities 	<ul style="list-style-type: none"> Follow the steps in posting online messages Realize the responsibilities on posting messages on the Internet Follow the steps in sharing websites Determine the importance Internet knowledge when sharing websites 	<ul style="list-style-type: none"> Quiz: <i>Think and Remember</i> from the worktext Performance task
<p>Lesson 6 Flyers, Brochures, and Posters</p>	<ul style="list-style-type: none"> Nagagamit ang <i>word processing tool</i> o <i>desktop publishing tool</i> sa paggawa ng <i>flyer, brochure, banner, o poster</i> na may kasamang nalagom na datos at diagram, table, tsart, photo, o drawing 	<ul style="list-style-type: none"> Discussion using an actual sample of brochure, flyer, and posters PowerPoint presentation Video viewing 	<ul style="list-style-type: none"> Define <i>brochures, flyers, and posters</i> Determine the publishing program used in creating brochures, flyers, and posters Acquaint oneself in using MS Publisher 	<ul style="list-style-type: none"> Quiz: <i>Think and Remember</i> from the worktext Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
			<ul style="list-style-type: none"> • Create a brochure using MS Publisher 	
Chapter 2 Successful Entrepreneurship				
Lesson 1 Spotting Opportunities for Products and Services	<ul style="list-style-type: none"> • Natutukoy ang mga oportunidad na maaaring mapagkakitaan (<i>products and services</i>) sa tahanan at pamayanan • Natutukoy ang oportunidad para sa produkto at serbisyo 	<ul style="list-style-type: none"> • Discussion • Online research • Community survey 	<ul style="list-style-type: none"> • Determine ways on how to spot business opportunities • Realize the importance of the Internet when looking for business opportunities • Make a research on products and services 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task
Lesson 2 Products and Services	<ul style="list-style-type: none"> • Naipaliliwanag ang kahulugan at pagkakaiba ng produkto at serbisyo 	<ul style="list-style-type: none"> • Interactive discussion • Classifying product categories • Deductive reasoning • Group activity 	<ul style="list-style-type: none"> • Determine the difference between products and services • Make a survey on the entrepreneurs in the community 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
<p>Lesson 3 The Demand for Products and Services</p>	<ul style="list-style-type: none"> Natutukoy ang mga taong nangangailangan ng angkop na produkto at serbisyo 	<ul style="list-style-type: none"> Discussion Classifying factors influencing needs for product or service 	<ul style="list-style-type: none"> Determine the factors that influenced the demand for products and services Identify the market and consumers of products and services Realize the difference between needs and wants 	<ul style="list-style-type: none"> Quiz: <i>Think and Remember</i> from the worktext Performance task
<p>Lesson 4 Business for Home and Community</p>	<ul style="list-style-type: none"> Natutukoy ang mga negosyong maaaring pagkakitaan sa tahanan at pamayanan 	<ul style="list-style-type: none"> Classifying enterprise according to asset and number of employees Listing of home-based business ideas Identifying agribusinesses Identifying ICT business suitable for Grade 5 Group activity 	<ul style="list-style-type: none"> Identify business opportunities and ideas for home and community Start an online business with a partner 	<ul style="list-style-type: none"> Quiz: <i>Think and Remember</i> from the worktext Performance task

Lesson	K-12 Learning Competencies	Strategies and Techniques	Desired Learning Outcomes	Assessment Tools
Lesson 5 Selling Products and Services	<ul style="list-style-type: none"> • Nakapagbebenta ng natatanging paninda 	<ul style="list-style-type: none"> • Analyzing story content • Experiencing a day of a salesperson • Discussion 	<ul style="list-style-type: none"> • Determine the selling techniques in selling products and service • Apply the different selling techniques in selling products in a school store 	<ul style="list-style-type: none"> • Quiz: <i>Think and Remember</i> from the worktext • Performance task