## MINISTRY OF EDUCATION



## TEACHING SYLLABUS FOR FOOD AND NUTRITION (SHS 1-3)

Enquiries and comments on this syllabus should be addressed to:

The Director
Curriculum Research and Development Division (CRDD)
P. O. Box 2739

Accra
Ghana
Tel: 0302-683668
0302-683651

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## TEACHING SYLLABUS FOR FOOD AND NUTRITION

## RATIONALE FOR TEACHING FOOD AND NUTRITION

Home Economics consists of three subjects: Food and Nutrition, Clothing and Textiles, and Management In-Living. The subjects of Home Economics emphasize the study of the physical, emotional, intellectual and social needs of the individual, the family and society. The welfare of the individual, the family and society is therefore the primary concern in Home Economics. This concern is manifested by assisting the student to acquire skills that he/she would need to be able to improve the quality and meaning of life in a changing society.

Without good food, an individual would not be able to function well in all spheres of life. It is therefore important that students are exposed to ways of selecting and cooking wholesome food for themselves and others. In addition, Food and Nutrition as a vocational subject, prepares students for the world of work. Food and Nutrition involves a study of the selection, processing, storage and utilization of food. The subject also encourages the creative use of local foods and associated food service to meet the nutritional needs and other demands of consumers.

## GENERAL AIMS:

The syllabus is designed to help students to:
acquire basic knowledge about foods, their nutritive value and utilization.
develop understanding of the relationship between nutrition and health.
recognize the need for efficiency in planning kitchens and in the selection, use and care of kitchen equipment.
apply the general principles underlying meal planning, selection, preparation and serving of food to feeding self, family and other consumers.
appreciate the importance of sanitation in the kitchen, food preparation and service.
apply the basic principles underlying food processing and preservation.
acquire the requisite knowledge and skills for further studies.
use research data and other sources of information for developing and improving local dishes.
set up a business in the food industry using all the basic skills acquired

## SCOPE OF CONTENT

Food and Nutrition at the SHS level covers the following areas:

- Nutrients in foods, functions and deficiency diseases
- Nutrition throughout the life cycle
- Food selection and purchase.
- Meal management
- Safety and Sanitation.
- Processing, preservation and storage of foods
- $\quad$ Career opportunities in the food industry


## PRE-REQUISITE SKILLS AND ALLIED SUBJECTS

Success in Foods and Nutrition requires foundation study in Integrated Science and Basic Design and Technology at the JHS. Management-In-Living and Chemistry/Biology are compulsory for students offering Food and Nutrition at SHS level.

To qualify for further studies in tertiary and other advanced institutions and professions such as nursing, students of Food and Nutrition may select any one of the following (General Knowledge in Art, Economics, French and ICT) in addition to core science.

STRUCTURE AND ORGANIZATION OF THE SHS FOOD AND NUTRITION SYLLABUS

| SHS 1 | SHS 2 | SHS 3 |
| :---: | :---: | :---: |
| TERM 1 | TERM 1 | TERM 1 |
| SECTION 1: NUTRITION AND HEALTH <br> Unit 1: Introduction to Nutrition <br> Unit 2: Introduction to Food <br> Unit 3: Food Habits <br> Unit 4: Digestion of Food and Absorption of Nutrients <br> Unit 5: Metabolism | SECTION 1: FLOUR COOKERY AND CONFECTIONERY <br> Unit 1: Types of flour <br> Unit 2: Basic ingredients in flour cookery <br> Unit 3: Raising Agents <br> Unit 4: Batters and Dough <br> Unit 5: Cakes and Biscuits <br> Unit 6: Pastries <br> Unit 7: Yeast mixtures | SECTION 1: THE ART OF ENTERTAINING <br> Unit 1: Types of Entertainment <br> Unit 2: Table Setting and Table Etiquette <br> Unit 3: Meal Service Styles |
| SECTION 2: FOOD LABORATORY AND EQUIPMENT <br> Unit 1: The Kitchen <br> Unit 2: Kitchen Equipment <br> Unit 3: Fuels used in the Kitchen. <br> Unit 4: Kitchen Safety and Sanitation | SECTION 2: SUGAR CONFECTIONERY <br> Unit 1: Sugars <br> Unit 2: Icings <br> Unit 3: Cake Decoration | SECTION 2: EXPERIMENTAL COOKERY <br> Unit 1: Research into Local Dishes and Drinks <br> Unit 2: Improvement of Existing Recipes |


| SHS 1 | SHS 2 | SHS 3 |
| :---: | :---: | :---: |
| TERM 2 | TERM 2 | TERM 2 |
| SECTION 3: COOKING FOOD <br> Unit 1: Principles underlying cooking <br> Unit 2: Transfer of Heat <br> Unit 3: Methods of Cooking <br> Unit 4: Cooking Terms | SECTION 3: FAMILY MEAL MANAGEMENT <br> Unit 1: Meal Planning <br> Unit 2: Meals for Special Groups <br> Unit 3: Rechauffé/Left-over Foods <br> Unit 4: Convenience Foods <br> Unit 5: Fats foods | SECTION 3: THE FOOD INDUSTRY <br> Unit 1: Catering on a Large Scale <br> Unit 2: Food Purchasing <br> Unit 3: Career Opportunities in Foods and Nutrition <br> Unit 4: Entrepreneurial Skills <br> Unit 5 : Food Packaging <br> Unit 6: Work Ethics |
| SECTION 4: FOOD COMMODITIES <br> Unit 1: Animals and Animal Products <br> Unit 2: Cereals/Grains | SECTION 4: STOCKS, SOUPS AND SAUCES <br> Unit 1: Stocks <br> Unit 2: Soups <br> Unit 3: Sauces | SECTION 4: EXHIBITION <br> Unit 1: Planning and Mounting Exhibitions |
|  |  | WASSCE in Progress |


| SHS 1 | SHS 2 | SHS 3 |
| :---: | :---: | :---: |
| TERM 3 | TERM 3 | TERM 3 |
| SECTION 5: FOOD COMMODITIES <br> Unit 1: Fruits and Vegetables <br> Unit 2: Legumes and Oily Seeds <br> Unit 3: Fats and Oils <br> Unit 4: Starchy Roots and Plantain <br> Unit 5: Food Additives | SECTION 5: BEVERAGES <br> Unit 1: Types of Beverages <br> Unit 2: Principles underlying the Preparation of Beverages | WASSCE in Progress |
| SECTION 6: FOOD STORAGE AND PRESERVATION <br> Unit 1: Food Spoilage <br> Unit 2: Food Preservation <br> Unit 3: Food Storage | SECTION 6: FESTIVE AND FESTIVAL DISHES <br> Unit 1: Festive Dishes <br> Unit 2: Festival Dishes | WASSCE in Progress |

## TIME ALLOCATION

A minimum of six (6) periods a week each of 40 minutes is recommended for teaching Food and Nutrition in SHS 1, a minimum of six (6) for SHS 2 and a minimum of six (6) for SHS 3.

| CLASS | NUMBER OF PERIODS |  |  |
| :---: | :---: | :---: | :---: |
|  | TOTAL | THEORY | PRACTICALS |
|  |  |  |  |
| SHS 1 | 6 | 2 | 3 |
| SHS 2 | 6 | 3 | 4 |
| SHS 3 | 6 | 2 | 4 |

## SUGGESTIONS FOR TEACHING THE SYLLABUS

New concepts and methodologies and the use of ICT have been introduced into the revised syllabus to meet the demands of the present educational system and also improve instructional delivery and learning. Read this section carefully to enrich your knowledge and teaching method. It is assumed that most of the materials and equipment to be used for teaching this subject will be obtained or produced locally.

As much as possible, teachers should co-operate with Science, Business Education and ICT teachers in the teaching of related topics in the syllabus. Teachers are encouraged to seek the assistance of experienced persons in the community as "resource persons" for teaching some of the specific topics in the syllabus.

The syllabus has been structured to cover each of the terms of the three years in the SHS programme. Teachers are required to develop a scheme of work for each term so as to cover each year's work appropriately. Teaching should be participatory and should be based on student-centred methods such as role-play, brainstorming, case studies, field trips, experiments, inquiry, future's wheel, demonstrations, practical work and project work. The lecture method must be used very sparingly. Students should be motivated to find new information about topics treated from other sources like the internet where available, print and electronic media and libraries

General Objectives: General Objectives have been listed at the beginning of each Section. The general objectives specify the skills and behaviours students should acquire as a result of instruction in the units of a section. Read the general objectives very carefully before you start teaching the section. After teaching all the units of the section go back and read the general objectives again to be sure you have covered the objectives adequately in the course of your teaching.

Sections and Units: The syllabus has been planned on the basis of Sections and Units. Each year's work is divided into sections. A section consists of a fairly homogeneous body of knowledge within the subject. Within each section are units. A unit consists of a more related and homogeneous body of knowledge and skills.

The syllabus is structured in five columns: Units, Specific Objectives, Content, Teaching and Learning Activities and Evaluation. A description of the contents of each column is as follows:

Column 1 - Units: The units in Column 1 are divisions of the major topics of the section. You are expected to follow the unit topics according to the linear order in which they have been presented. However, if you find at some point that teaching and learning in your class will be more effective if you moved to another specific objective in the unit or to another unit completely before coming back to the next specific objective or unit in the appropriate sequence, you are encouraged to do so.

Column 2 - Specific Objectives: Column 2 shows the Specific Objectives for each unit. The specific objectives begin with numbers such as 1.3.5 or 2.2.1. These numbers are referred to as "Syllabus Reference Numbers". The first digit in the syllabus reference number refers to the section; the second digit refers to the unit, while the third digit refers to the rank order of the specific objective. For instance, 1.3.5 means Section 1, Unit 3 (of Section 1) and Specific Objective 5 . In other words, 1.3.5 refers to Specific Objective 5 of Unit 3 of Section 1.

Similarly, the syllabus reference number 2.1 . 1 simply means Specific Objective number 1 of Unit 1 of Section 2. Using syllabus reference numbers provides an easy way for communication among educators. It further provides an easy way for selecting objectives for test construction. For instance, Unit 1 of Section 2 of year one has three specific objectives: 2.1.1-2.1.3. A teacher may want to base his/her test items/questions on objectives 2.1.2 and 2.1.3 and not use the other objective. In this way, the teacher would sample the objectives within units and within sections to be able to develop a test that accurately reflects the importance of the various skills taught in class.

You will note also that specific objectives have been stated in terms of the student i.e., what the student will be able to do after instruction and learning in the unit. Each specific objective hence starts with the following, "The student will be able to..." This in effect, means that you have to address the learning problems of each individual student. It means individualizing your instruction as much as possible such that the majority of students will be able to master the objectives of each unit of the syllabus.

Column 3 - Content: The "content" in the third column of the syllabus presents a selected body of information that you will need to use in teaching particular unit. In some cases, the content presented is quite exhaustive. In other cases, you could add more information to the content presented. In a few cases the content space has been left blank for you to develop.

Column 4 - Teaching and Learning Activities (T/LA): T/L activities that will ensure maximum student participation in the lessons are presented in column 4. Avoid rote learning and drill-oriented methods and rather emphasize participatory teaching and learning, and also emphasize the cognitive, affective and psychomotor domains of knowledge in your instructional system wherever appropriate. You are encouraged to re-order the suggested teaching and learning activities and also add to them where necessary in order to achieve optimum student learning. As we have implied already, the major purpose of teaching and learning is to make students able to apply their knowledge in dealing with issues both in and out of school.

A suggestion that will help your students acquire the habit of analytical thinking and the capacity for applying their knowledge to problems is to begin each lesson with a practical problem. Select a practical problem for each lesson. The selection must be made such that students can use knowledge gained in the previous lesson and other types of information not specifically taught in class. At the beginning of a lesson, state the problem, or write the problem on the board. Let students analyse the problem, suggest solutions, etc., criticize solutions offered, justify solutions and evaluate the worth of possible solutions.

Column 5 - Evaluation: Suggestions and exercises for evaluating the lessons of each unit are indicated in Column 5 . Evaluation exercises can be in the form of oral questions, quizzes, class assignments, essays, structured questions, project work, etc. Ask questions and set tasks and assignments that will challenge your students to apply their knowledge to issues and problems as we have already said above and that will engage them in developing solutions and developing positive attitudes towards the subject as a result of having undergone instruction in this subject. The suggested evaluation tasks are not exhaustive. You are encouraged to develop other creative evaluation tasks to ensure that students have mastered the instruction and behaviour implied in the specific objectives of each unit.

Lastly, bear in mind that the syllabus cannot be taken as a substitute for lesson plans. It is therefore, necessary that you develop a scheme of work and lesson plans for teaching the units of this syllabus.

## Profile Dimensions

A central aspect of this syllabus is the concept of profile dimensions that should be the basis for instruction and assessment. A 'dimension' is a psychological unit for describing a particular learning behaviour. More than one dimension constitutes a profile of dimensions. A specific objective such as, "The student will be able to describe..." etc., contains an action verb "describe", that indicates what the student will be able to do after teaching has taken place. Being able to "describe" something after the instruction has been completed means that the student has acquired "knowledge". Being able to explain, summarize, give examples, etc. means that the student has understood the lesson taught. Similarly, being able to develop, plan, construct, etc. means that the student has learnt to create, innovate or synthesize knowledge. You will note that each of the specific objectives in this syllabus contains an "action verb" that describes the behaviour the student will be able to demonstrate after the instruction. "Knowledge", "Application", etc. are dimensions that should be the prime focus of teaching and learning in schools. Instruction in most cases has tended to stress knowledge acquisition to the detriment of other higher level behaviours such as application, analysis, etc. The essence of learning is to enable students to be able to apply their knowledge, develop analytical thinking skill, synthesize information, and use their knowledge in a variety of ways to deal with learning problems and issues in their lives. We are interested most of all, to produce problem-solving persons and practically oriented persons through the educational system. Each action verb indicates the underlying profile dimension of each particular specific objective. Read each objective carefully to know the profile dimension toward which you have to teach.

In Food and Nutrition, the three profile dimensions that have been specified for teaching, learning and testing are:

| Knowledge and Understanding | $15 \%$ |
| :--- | :--- |
| Application of Knowledge | $25 \%$ |
| Practical Skills | $60 \%$ |

Each of the dimensions has been given a percentage weight that should be reflected in teaching, learning and testing. The weights, indicated on the right of the dimensions, show the relative emphasis that the teacher should give in the teaching, learning and testing processes. The focus of this syllabus is to get students not only to acquire knowledge but also to understand what they have learnt and apply them practically.

The explanation and key words involved in each of the dimensions are as follows:

## Knowledge and Understanding (KU)

knowledge The ability to:
remember, recall, identify, define, describe, list, name, match, state principles, facts and concepts. Knowledge is simply the ability to remember or recall material already learned and constitutes the lowest level of learning.

Understanding
The ability to:
explain, summarize, translate, rewrite, paraphrase, give examples, generalize, estimate or predict consequences based upon a trend. Understanding is generally the ability to grasp the meaning of some material that may be verbal, pictorial, or symbolic.

## Application of Knowledge (AK)

The ability to use knowledge or apply knowledge, as implied in this syllabus, has a number of learning/behaviour levels. These levels include application, analysis, creation, innovation or synthesis, and evaluation. These may be considered and taught separately, paying attention to reflect each of them equally in your teaching. The dimension "Application of Knowledge" is a summary dimension for all four learning levels. Details of each of the four sub-levels are as follows:

The ability to:
apply rules, methods, principles, theories, etc. to concrete situations that are new and unfamiliar. It also involves the ability to produce, solve, operate, demonstrate, discover, etc.
analysis
The ability to:
break down a piece of material into its component parts; to differentiate, compare, distinguish, outline, separate, identify significant points, etc., recognize unstated assumptions and logical fallacies, recognize inferences from facts, etc. Analytical ability underlies discriminant thinking.
innovation/creativity The ability to put parts together to form a new whole. It involves the ability to synthesize,combine, compile, compose, devise, suggest a new idea or possible ways, plan, revise, design, organize, create, and generate new solutions. The ability to create or innovate is the highest form of learning. The world becomes more comfortable because some people, based on their learning, generate new ideas and solutions, design and create new things.
evaluation The ability to appraise, compare features of different things and make comments or judgments, contrast, criticize, justify, support, discuss, conclude, make recommendations etc. Evaluation refers to the ability to judge the worth or value of some materials, ideas etc., based on some criteria. Evaluation is a constant decision making activity. We generally compare, appraise and select throughout the day. Every decision we make involves evaluation. Evaluation is a high level ability just as application, analysis and innovation or creativity since it goes beyond simple knowledge acquisition and understanding.

The action verbs provided under the various profile dimensions and in the specific objectives of the syllabus should help you to structure your teaching such as to achieve the effects needed. Select from the action verbs provided for your teaching, in evaluating learning before, during and after the instruction. Use the action verbs also in writing your test questions.

## Practical Skills (PS)

Practical skills involve the use of tools /equipment, skills and knowledge acquired in practical situations which involve pre-imaging to solve practical problems and produce items. For example, knowledge acquired about nutrients in food should be applied when the student is planning meals for different people and for meal preparation in general.

Many of the equipment needed for teaching the practical skills component of the subject may not be available in schools. For this reason, the teacher is advised to improvise or request students to bring them along where possible. You are encouraged to engage your students in practical work to help build their skills. When students undertake practicals they also develop the confidence to exhibit what they learn in similar situations.

Skills required for effective practical work are the following:

1. Handling Tools/Equipment
2. Observation

Originality
. Perception
5. Creativity
6. Communication.

## FORM OF ASSESSMENT

In developing assessment procedures, select specific objectives in such a way that you will be able to assess a representative sample of the syllabus objectives. Each specific objective in the syllabus is considered a criterion to be achieved by the student. When you develop a test that consists of items or questions that are based on a representative sample of the specific objectives taught, the test is referred to as a "Criterion-Referenced Test". In many cases, a teacher cannot test all the objectives taught in a term, in a year, etc. The assessment procedure you use i.e. class tests, home work, projects, etc. must be developed in such a way that it will consist of a sample of the important objectives taught over a period.

WAEC's examination structure at the WASSCE consists of two papers, Paper 1 and Paper 2 and the SBA.
Paper 1 is a Practical Test and Paper 2 is a test of theory, consisting of two sections (A \& B). Section A is composed of 60 objective questions and Section B, consists of 6 essay questions out of which students answer 4 questions. Further details of the examination structure are provided below.

Paper 1: This is the Practical Test and carries 100 marks. The Practical Preparation or Assignment Planning carries 40 marks of the total marks while the Finished Dishes carry the remaining 60 marks.

Paper 2: This is a test of theory consisting of two sections A and B. Sections A is the objective section and is composed of 60 objective items carrying 60 marks. Section B consists of 4 essay questions each of which carries 25 marks, making a total of 100 marks. About half of the essay questions will test knowledge of practical skills while the rest will test knowledge and understanding and use of knowledge. The structure of the examination papers, the mark distribution and the profile weights are indicated in the table below.

DISTRIBUTION OF EXAMINATION PAPER WEIGHTS AND MARKS

| Dimensions | Paper 1 | Paper 2 |  | SBA | Total <br> Marks | \% Weight of <br> Profile <br> Dimensions |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Section A <br> (Objective <br> Questions) | Section B <br> (Essay <br> Questions) |  |  |  |  |
| Knowledge and <br> Understanding | - | 30 | 25 | - | 55 | 15 |
| Use of Knowledge | 40 | 30 | 20 | - | 20 | 25 |
| Practical Skills | 60 | - | 55 | 110 | 225 | 60 |
| Total | $\mathbf{1 0 0}$ | $\mathbf{6 0}$ | $\mathbf{1 0 0}$ | $\mathbf{1 1 0}$ | $\mathbf{3 7 0}$ | 100 |
| \% Contribution of Exam <br> Papers and SBA | 27 | 16 | 27 | $\mathbf{3 0}$ |  |  |

The numbers in the cells indicate the marks to be allocated to the items/questions that test each of the dimensions within the respective papers.
The last but one column shows the total marks allocated to each of the dimensions. The numbers in this column are additions of the numbers in the cells and they agree with the profile dimension weights indicated in the last column. The last row shows the weight of each of the papers and the SBA in the total marks of 370 . Paper 1 has a weight of $27 \%$, Section A of Paper 2 has a weight of $16 \%$; Section B of Paper 2 has a weight of $27 \%$ and the SBA has a weight of $30 \%$. The examination structure shows that the SBA should focus entirely on practical skills.

Item Bank: Obviously the structure of assessment recommended in this syllabus will need a lot of work on the part of the teacher. In preparation for setting examination papers, try to develop an item bank. The term "item bank" is a general term for a pool of objective items, a pool of essay questions or a pool of practical test questions. As you teach the subject, begin to write objective test items, essay questions, structured essay questions and practical test questions to fit selected specific objectives which you consider important to be tested. If you proceed diligently, you will realize you have written more than 100 objective test items, and more than 30 essay questions in a space of one year. Randomly select from the item bank to compose the test papers. Select with replacement. This means, as items/questions are selected for testing, new ones have to be written to replace those items/questions already used in examinations. Items and questions that have been used in examinations may also be modified and stored in the item bank.

An important issue in the preparation for a major examination such as the WASSCE, is the issue of "test wiseness". To be "test wise" means that the student knows the mechanics for taking a test. These mechanics include writing the index number and other particulars accurately and quickly on the answer paper; reading all questions before selecting the best questions to answer; apportioning equal time to each question or spending more time on questions that carry more marks; making notes on each question attempted before writing the answer; leaving extra time to read over one's work; finally checking to see that the personal particulars supplied on the answer sheet are accurate. Some good students sometimes fail to do well in major examinations because of weakness in the mechanics of test taking; because they are not test wise.

Take your final year students through these necessary mechanics so that their performance in major examinations may not be flawed by the slightest weakness in test taking.

## GUIDELINES FOR SCHOOL-BASED ASSESSMENT (SBA)

A new School Based Assessment system (SBA) will be introduced into the school system in 2011. The new SBA system is designed to provide schools with an internal assessment system that will help schools to achieve the following purposes:

> Standardize the practice of internal school-based assessment in all Senior High Schools in the country
> Provide reduced assessment tasks for subjects studied at SHS
> Provide teachers with guidelines for constructing assessment items/questions and other assessment tasks
> Introduce standards of achievement in each subject and in each SHS class
> Provide guidance in marking and grading of test items/questions and other assessment tasks
> Introduce a system of moderation that will ensure accuracy and reliability of teachers' marks
> Provide teachers with advice on how to conduct remedial instruction on difficult areas of the syllabus to improve class performance.

SBA may be conducted in schools using the following: Mid-term test, Group Exercise, End-of-Term Test and Project

1. Project: This will consist of a selected topic to be carried out by groups of students for a year. Segments of the project will be carried out each term toward the final project completion at the end of the year. The projects may include the following:
ii) investigative study (including case study) \}
iii) practical work assignment

A report must be written for each project undertaken.
2. Mid-Term Test: The mid-term test following a prescribed SBA format
3. Group Exercise: This will consist of written assignments or practical work on a topic(s) considered important or complicated in the term's syllabus
4. End-of-Tem Test: The end -of-term test is a summative assessment system and should consist of the knowledge and skills students have acquired in the term. The end-of-term test for Term 3 for example, should be composed of items/questions based on the specific objectives studied over the three terms, using a different weighting system such as to reflect the importance of the work done in each term in appropriate proportions. For example, a teacher may build an End-of-Term 3 test in such a way that it would consist of the $20 \%$ of the objectives studied in Term 1, 20\% of objectives studied in Term 2 and $60 \%$ of the objectives studied in Term 3.

## GRADING PROCEDURE

To improve assessment and grading and also introduce uniformity in schools, it is recommended that schools adopt the following WASSCE grade structure for assigning grades on students' test results. The WASSCE structure is as follows:

| Grade A1: | $80-100 \%$ | - | Excellent |
| :--- | :--- | :--- | :--- |
| Grade B2: | $70-79 \%$ | - | Very Good |
| Grade B3: | $60-69 \%$ | - | Good |
| Grade C4: | $55-59 \%$ | - | Credit |
| Grade C5: | $50-54 \%$ | - | Credit |
| Grade C6: | $45-49 \%$ | - | Credit |
| Grade D7: | $40-44 \%$ | - | Pass |
| Grade D8: | $35-39 \%$ | - | Pass |
| Grade F9: | $34 \%$ and below - | Fail |  |

In assigning grades to students' test results, you are encouraged to apply the above grade boundaries and the descriptors which indicate the meaning of each grade. The grade boundaries i.e., $60-69 \%, 50-54 \%$ etc., are the grade cut-off scores. For instance, the grade cut-off score for B2 grade is $70-79 \%$ in the example. When you adopt a fixed cut-off score grading system as in this example, you are using the criterion-referenced grading system. By this system a student must make a specified score to be awarded the requisite grade. This system of grading challenges students to study harder to earn better grades. It is hence a very useful system for grading achievement tests.

Always remember to develop and use a marking scheme for marking your class examination scripts. A marking scheme consists of the points for the best answer you expect for each question, and the marks allocated for each point raised by the student as well as the total marks for the question. For instance, if a question carries 20 marks and you expect 6 points in the best answer, you could allocate 3 marks or part of it (depending upon the quality of the points raised by the student) to each point, hence totaling 18 marks, and then give the remaining 2 marks or part of it for organization of answer. For objective test papers you may develop an answer key to marking.

## SENIOR HIGH SCHOOL - YEAR 1 - TERM 1

## SECTION

## NUTRITION AND HEALTH

General Objectives: The student will:

1. become aware of available food items and their importance to individuals and society.
2. recognise the relationship between food, nutrition and health.
3. appreciate the importance of digestion, absorption and metabolism to life.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 | The student will be able to: |  |  |  |
| INTRODUCTION TO NUTRITION | 1.1.1 explain nutrition and its related terms. | NUTRITION <br> Nutrition: is the study of food and how food intake affects the body. <br> TERMS <br> - Malnutrition. <br> - Dietetics <br> - Metabolism <br> - Balanced-diet <br> - Regenerative Diet | Students brainstorm to explain nutrition. Use pictures/charts/drawings and other relevant materials to explain the terms. <br> Regenerative Diet - promotes an eating habit based on adequate consumption of plant foods and reduction/elimination of animal products, salt, fat and sugar. |  |
|  | 1.1.2 identify the nutrients found in foods. | NUTRIENTS IN FOOD <br> - Proteins <br> - Carbohydrates <br> - Sugars <br> - Starches <br> - Dietary fiber <br> - Vitamins <br> - Fats <br> - Minerals <br> - Water | Discuss each nutrient under the following headings <br> - sources <br> - functions <br> - deficiency <br> - individual and special group needs. <br> Assist students to relate nutrition to health. | Students analyse a day's meal in groups and report in terms of the nutrient content |
|  | 1.13 explain the importance of Water in the body. | IMPORTANCE OF WATER IN THE BODY <br> - Cleanses the body <br> - Transports nutrients <br> - Removes waste, etc. | Discuss the importance, recommended daily intake of water and ways to promote its drinking, symptoms of dehydration and rehydration formula. | Home work <br> Find out from other sources how ORS is prepared and prepare some in class. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 <br> INTRODUCTION TO FOOD | The student will be able to: <br> 1.2.1 explain the term food. <br> 1.2.. 2 outline the importance of food. <br> 1.2.3 classify food into groups. | FOOD <br> Food is anything solid or liquid which when taken into the body, promotes growth, provides heat and energy and regulates body processes. <br> IMPORTANCE OF FOOD <br> - Biological Importance <br> - growth <br> - energy <br> - repair <br> - Social Importance <br> - build relationships <br> - foster bonds <br> - express appreciation <br> - Psychological/Emotional Importance <br> - love and affection, <br> - stress, worries etc <br> FOOD GROUPS <br> - The six food groups: <br> - animals and animal products <br> - legumes and oily seeds <br> - fruits and vegetables <br> - cereals/grains <br> - fats and oils <br> - starchy roots and plantain | Brainstorm to come out with the meaning of food. <br> Discuss the importance of food with students. <br> NOTE: Stress the difference between hunger and appetite <br> Students to list the food items in their localities. <br> Display different food items for students to group into Ghana's six food groups. <br> Students work in small groups to classify the food items and suggest headings for each group with reasons. | Assignment: <br> Students to look for information on food groups of other countries from the internet, T.V books, journals etc. |



| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 (CONT'D) FOOD HABITS | The student will be able to: <br> 1.3.4 describe the effects of food habits on nutritional status of individuals. | EFFECTS OF FOOD HABITS ON NUTRITIONAL STATUS <br> - Negative Effects <br> - meals may lack variety <br> - nutritional excesses may occur <br> - nutrient deficiencies may occur <br> - obesity and heart related diseases may occur. <br> - Positive Effects <br> - good food habits promote good health and prevents diseases <br> - good food habits help save money <br> - helps to prevent waste <br> - improves family togetherness. | Discuss with students the negative and positive effects of food habits on the individual and the family. | Assignment: <br> 1. Students to find out from their peers factors that can change their eating habits. <br> 2. Using the internet and library sources, research the eating patterns in two other cultures. Discuss why eating patterns vary from one culture to another. Present your findings to the class. |




| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 5 (CONT'D) METABOLISM | The student will be able to: | BMI Categories <br> Underweight <br> - Under 20kg per meter Normal weight <br> - $21-25 \mathrm{~kg}$ per meter Overweight <br> - 26 - 29 kg per meter Obese <br> - 30 kg per meter and above |  |  |

## SENIOR HIGH SCHOOL - YEAR 1

## SECTION 2

## FOOD LABORATORY AND EQUIPMENT

General Objectives: The student will:

1. become aware of the role kitchens play in food preparation, and food service and the need for planning kitchens.
2. recognize the safe and efficient use of equipment and fuel in the kitchen.
3. develop skills in maintaining general cleanliness in the food laboratory.


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 <br> KITCHEN EQUIPMENT | The student will be able to: <br> 2.2.1 group kitchen equipment into the main classes. <br> 2.2.2 choose appropriate equipment for specific tasks. | CLASSIFICATION OF KITCHEN EQUIPMENT <br> Kitchen equipment may be classified based either on size or on their functions: <br> Size <br> Small equipment <br> Large equipment <br> Functions <br> Cutting, Chopping, Slicing <br> Heating <br> Measuring <br> Weighing <br> Cooling equipment <br> Cooking \& Heating etc <br> These equipment could be tools or appliances <br> Tools: - equipment that are manually operated, usually small equipment <br> Appliances: - equipment that are usually operated by external energy like electricity or gas <br> SELECTION AND USE <br> Factors: <br> Need <br> Cost <br> Ease in cleaning <br> Family size <br> Efficiency <br> Durability <br> Versatility <br> Space available/Size of kitchen | Students to list kitchen equipment they know. Teacher adds to the list by displaying/showing pictures of other equipment not listed or mentioned. <br> NOTE: Both large and small equipment could be labour saving e.g. egg slicer, cooker etc. <br> Assist students to describe the difference between tools and appliances. Students to identify the materials used, and state the effect of heat on the materials and the reaction of the material with food. <br> Discuss factors for the selection and use of equipment with students. <br> Demonstrate the use of basic equipment. e.g. cook's knife in chopping. | Home work: <br> Students to look for various tools and appliances from the internet and other sources or visit a supermarket and look for various tools and appliances. List the various equipment and their uses. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 (CONT'D) <br> KITCHEN EQUIPMENT | The student will be able to: <br> 2.2.3 describe how to care for and store different equipment. <br> 2.2.4 use standard and handy measures correctly. | CARE AND STORAGE <br> Care: <br> Proper handling <br> General procedures for cleaning <br> Use of appropriate cleaning agent. <br> Cleaning according to material used. <br> Storage: <br> Facilities for storage cupboard, <br> baskets, boxes etc. airtight containers <br> Appropriate conditions for <br> storage <br> good ventilation <br> lighting etc. <br> Appropriate ways of storing <br> specific equipment e.g. <br> glass ware, not to be stacked, etc <br> MEASURING EQUIPMENT <br> Standard <br> - scale, thermometer <br> - measuring cups, jugs, spoons. Handy <br> - empty tins, calabash, bowls, bottles, ladles etc. | Group students to discuss how to care for various equipment. <br> Demonstrate how to clean selected basic equipment. <br> Class practical work on cleaning of equipment <br> saucepans, <br> plastic ware, <br> bake ware, etc. <br> Students to brainstorm on the appropriate facilities for storage of equipment. Discuss students' responses. <br> Demonstrate to students how specific kitchen equipment could be stored correctly. <br> Assist them to store the equipment they cleaned. <br> Brainstorm to bring out the different equipment used for measuring. <br> Demonstrate the correct use of measuring equipment such as scale, measuring jug, tins. <br> Values: Draw students' attention to the values of honesty and the love for fellow human to measure food accurately and not to cheat when selling food. | Assess the practical work: <br> look out for appropriate use of cleaning agent correct way of cleaning end result. <br> Assess the practical work. <br> Group assignment: Students to standardize handy measures in class by putting different food items into the handy measure and weighing the items and record the weights. |




## SENIOR HIGH SCHOOL - YEAR 1 TERM 2

SECTION 3
COOKING FOOD
General Objectives: The student will:

1. be aware of the principles for cooking food.
2. understand the various ways of heat transfer and apply them in cooking food.
3. understand basic cooking terms and use them appropriately.


| UNIT |  | ECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 3 (CON'T'D) <br> METHODS OF COOKING | The student will be able to: |  | - Dry heat methods: baking <br> - grilling <br> - roasting <br> - microwave <br> - Frying <br> - deep <br> - shallow <br> - dry <br> - sauté <br> - stir fry |  | Class Exercise:- <br> Students to classify the cooking methods under the following: <br> - moist <br> - dry <br> - frying <br> Give examples of foods cooked by these methods. |
|  | 3.3.2 | prepare suitable dishes using the different methods of cooking. | PREPARATION OF DISHES <br> - Moist methods <br> - Dry methods <br> - Frying | Assist students to do practical work on the different methods. <br> Let each group prepare a dish based on a particular method of cooking. <br> Students should set out their dishes for appraisal. <br> They should exchange notes and write out the method of preparing each dish. | Assess the dishes cooked under: <br> - appearance <br> - taste, <br> - texture. |
| UNIT 4 <br> COOKING TERMS | 3.4.1 | explain some basic cooking terms. | BASIC TERMS <br> - Chop <br> - Shred <br> - Blend <br> - Beat <br> - Whisk <br> - Glaze <br> - Baste <br> - Dredge <br> - Sift/Sieve <br> - Strain <br> - Blanch <br> - Drain etc | Brainstorm and discuss the outlined basic terms with students. <br> Explain and demonstrate the terms with relevant equipment wherever possible. <br> Allow students to practise after demonstration. | Assignment:- <br> Students to find out from the internet and other sources the equipment used to perform the activities listed in the content. |

## SENIOR HIGH SCHOOL - YEAR 1

## SECTION 4

FOOD COMMODITIES

## General Objectives: The student will:

1. recognise the different food commodities, their choice, nutritive value, preparation and service.
2. appreciate the availability of food commodities in influencing eating patterns.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> ANIMALS AND ANIMAL PRODUCTS | The student will be able to: <br> 4.1.1 identify the different kinds of animals and animal products and select them appropriately . <br> 4.1.2 describe the effect of heat on animals and animal products. | KINDS: <br> - Meat - beef, mutton, pork, game, etc. <br> - Poultry <br> - Fish <br> - Eggs <br> - Milk etc. <br> EFFECT OF HEAT ON PROTEIN FOODS <br> - They coagulate with heat. <br> - Flavours are enhanced. <br> - They shrink <br> - They denature | Discuss the kinds under the following headings: <br> - Structure <br> - Nutritive Value <br> - Selection/Choice <br> - Storage <br> - Preparation and Serving <br> Assist students to perform in groups experiments in which they apply heat to pieces of animal food eg. meat, fish <br> Students observe and discuss under the following: coagulation, shrinkage, flavour, colour change and texture. | Assessment: <br> Students to find ways in which one can differentiate pork, beef and mutton in the market. |



| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 (CONT'D) <br> CEREALS/ GRAINS | The student will be able to: <br> 4.2.4 explain the importance of cereals/grains in the diet. <br> 4.2.5 prepare and serve cereal/grains dishes. | IMPORTANCE <br> - Versatility <br> - Thickening agent <br> - Cheap source of energy <br> - Contains nutrients, vitamins, minerals. <br> - Good source of roughage <br> PREPARATION OF CEREAL <br> DISHES USING: <br> - Corn <br> - Rice <br> - Millet <br> - Sorghum <br> - Wheat products eg. pasta, semolina etc. | Group students to discuss the importance of cereals in the diet. Follow up with class discussion on students presentations. <br> Teacher demonstrates to students how to prepare kenkey, "tuo zaafi", "akple" etc. <br> Students prepare in groups, cereal dishes from different localities. <br> Students to display their dishes for assessment. | Assess the dishes based on: <br> - appearance, <br> - texture/consistency and mode of service. <br> - Look out for the application of the elements and principles of design. |

## SENIOR HIGH SCHOOL - YEAR 1

## FOOD COMMODITIES

General Objectives: The student will:

1. recognize the different food commodities, their choice, nutritive value, preparation and service.
2. appreciate the availability of food commodities in influencing eating patterns.
3. appreciate the significance of food additive in food preparation.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> FRUITS AND VEGETABLES | The student will be able to: <br> 5.1.1 classify fruits. | CLASSIFICATION OF FRUITS <br> - Citrus <br> - oranges <br> - tangerine <br> - grape fruit <br> - lemon, etc <br> - Berries <br> - black berries <br> - straw berries <br> - sweet berry ('asaba') <br> - grapes, etc <br> - Fleshy <br> - water melon <br> - pawpaw <br> - bananas <br> - pineapples <br> - 'alasa’, etc. <br> - Stone <br> - avocado <br> - mango <br> - dates, etc | Display fruits from the different groups. Students examine and group them appropriately. <br> Discuss the characteristics of each group under the following: <br> - Structure <br> - Nutritive value <br> - Selection/choice <br> - Storage <br> - Preparation and serving |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1(CONT'D) <br> FRUITS AND VEGETABLES | The student will be able to: <br> 5.1.2 classify vegetables. <br> 5.1.3 describe the structure, nutritive value and storage of some fruits and vegetables. | CLASSIFICATION OF VEGETABLES: <br> * Above ground <br> - Fruits and Seeds <br> - cucumber <br> - okro <br> - French beans <br> - tomatoes, etc <br> - Flowers <br> - cauliflower <br> - broccoli, etc <br> - Leaves <br> - cabbage <br> - kontomire <br> - spinach <br> - bitter leaf <br> - 'alefo', etc <br> - Stem <br> - asparagus <br> - celery, etc <br> * Below ground <br> - Tubers <br> - yams <br> potatoes, etc <br> Bulbs <br> - onions <br> - shallots <br> - leeks <br> - spring onions, etc <br> - Roots <br> - carrots <br> - raddish <br> - beetroot, etc. <br> STORAGE OF SOME FRUITS AND VEGETABLES <br> - Structure <br> - Nutritive value <br> - Selection/choice <br> - Storage <br> - Preparation and serving | Assist students to classify vegetables into their various groups <br> NOTE: Display different vegetables for classification. <br> Discuss fruits and vegetables with students. | Assignment: <br> Students to identify and list other local fruits and vegetables under the different classes for further class discussion. |







| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHNING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 (CONT'D) FOOD <br> ADDITIVES | The student will be able to: <br> 5.3.4 select and use herbs, spices, colours and condiments appropriately. | SELECTION AND USE: <br> Herbs: bayleaf, mint, parsley, rosemary, sage, thyme <br> Spices: cloves, cinnamon, garlic, ginger, nutmeg, cayenne pepper, pepper corn, spiced tree fruit ("whentsia") <br> Colours: tumeric, saffron, cochineal, treacle. <br> Condiments: salt, pepper, mustard, vinegar, 'dawadawa', monosodium glutamate <br> USES: <br> Herbs <br> Mint used to flavour lamb, vegetables, in marinades, for kebabs, fruitcups and salad dressing <br> Spices: <br> Ginger used in curries, sauces, cakes, biscuits, jams, drinks, pickles etc. <br> Colour: <br> Saffron: gives yellow colour to food eg. rice. <br> Condiments: <br> Salt gives flavour to food and preserves food. <br> Monosodium glutamate (MSG) used to enhance the flavour of food. | Students to brainstorm to come out with herbs and spices used at home. <br> Follow up with a discussion on other types as in content. Discussion should include local names of the herbs and spices in content. <br> Students in groups to experiment on various combinations of herbs and spices in meal preparation. Report on resulting flavours. <br> NOTE: The use of too much salt and adding salt at table should be discouraged, for health reasons. <br> Excessive intake of monosodium glutamate has been associated with ailments whose symptoms are headache, palpitation, pains in the chest and neck. Therefore considering the health of others, it should be used in moderation. | Assignment: <br> Students to find out other local spices, colours, herbs and condiments and their uses. Create a class booklet on the spices colours, herbs and condiments. |

## SENIOR HIGH SCHOOL - YEAR 1

## SECTION 6

## FOOD STORAGE AND PRESERVATION

General Objectives: The student will:

1. be aware of the causes of food spoilage and the need to improve the shelf life of fresh foods.
2. apply the principles underlying food storage and preservation.
3. develop skills in the preparation of preserves.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> FOOD <br> SPOILAGE | The student will be able to: <br> 6.1.1 explain food spoilage. <br> 6.1.2 explain the causes of food spoilage. | FOOD SPOILAGE <br> Food spoilage is the deterioration and decay of food. <br> CAUSES <br> - Enzyme action <br> - Oxidation <br> - Action of micro-organisms - bacteria, yeast, fungi <br> - Pest damage <br> - Bruises, cuts etc. | Brainstorm and discuss the meaning of food spoilage with students. <br> Students work in groups to discuss the causes of food spoilage, the mechanisms involved in each case and the impact on foods concerned. <br> Students to present reports for further discussion. <br> Values: Stress the value of love and truthfulness. Be responsible and not use rotten food items to prepare food for sale. NOTE: Teacher to draw students' attention to physical spoilage, such as physical food that is burnt during cooking eg rice. | Experiment:- <br> Students to make the ff experiment: <br> i. enzyme action on food e.g kontomire turning yellow etc. <br> ii. oxidation - cut banana, gardens eggs, yam e.g. turning brown <br> iii. micro - organisms fish - bacteria bread/kenkey (Fungi) <br> - pineapple (yeast) |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 <br> FOOD PRESERVATION | The student will be able to: <br> 6.2.1 explain preservation. <br> 6.2.2 explain the importance of preservation. <br> 6.2.3 explain the main principles underlying food preservation. <br> 6.2.4 describe various methods of food preservation. | PRESERVATION: <br> Preservation is the process of protecting food from spoilage. <br> IMPORTANCE OF PRESERVATION <br> - Cut down food cost. <br> - Make food available throughout the year. <br> - Prolong shelf life of foods <br> - Ensure food security etc <br> GENERAL PRINCIPLES: <br> To slow down or prevent the action of all agents which causes food spoilage without damaging the food or adding harmful substances to it. <br> METHODS OF FOOD PRESERVATION: <br> - Drying and Dehydration <br> - sun drying solar drying freeze drying <br> - Addition of chemicals <br> - salt <br> - sugar <br> - acids - vinegar <br> - Freezing (Low temperature) <br> - Heat (High temperature) <br> - canning <br> - bottling | Brainstorm and discuss the meaning of preservation. <br> Discuss the importance of food preservation. <br> NOTE: Teacher should link food spoilage to food security and conservation of food in the home. <br> Brainstorm and discuss the principles underlying food preservation with reference to the experiments performed previously. <br> Students to describe some of the various methods of preserving foods they know. <br> Students in small groups, discuss what happens in each of the processes of preservation and present reports for class discussion. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 (CONT'D) FOOD <br> PRESERVATION | The student will be able to: <br> 6.2.5 identify various types of preserves. <br> 6.2.6 prepare some preserves. | TYPES OF PRESERVES: <br> Jam <br> Marmalade <br> "Shit"" <br> Pickles <br> "Kokonte" <br> "Dawadawa" <br> Okro <br> "Kuka" <br> Pepper <br> PREPARATION OF PRESERVES <br> Jam <br> "Shit?" <br> Pickled onions | Ask students to mention the various types of preserves they know. <br> Discuss some of those listed under content. <br> Demonstrate the preparation of Jam, "Shits" and Pickles. Follow up with class practical work. <br> Students to work in groups. <br> Take a field trip with students to places where different foodstuffs are preserved to see what goes on. Students to look out for types of food preserved methods used for preservation types of packaging quality control measures in place condition of environment <br> Let them write reports on the field trip. | Assess the finished products on: <br> appearance <br> taste <br> packaging <br> price and cost <br> Assess their reports. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 3 <br> FOOD STORAGE | The student will be able to: <br> 4.3.1 explain food storage. <br> 4.3.2 explain the importance of storing foods. <br> 4.3.3 store both perishable and non perishable foods appropriately. <br> 4.3.4 describe the equipment for storing different food items. | FOOD STORAGE: <br> Keeping food at appropriate temperatures or conditions and places to prolong shelf life. <br> IMPORTANCE OF FOOD STORAGE: <br> - To cut down food cost. <br> - Prevent spoilage <br> - For orderly arrangement, etc. <br> STORAGE OF PERISHABLE AND NON-PERISHABLE FOODS <br> - Perishable foods: <br> - are stored well packaged in refrigerators /freezers or in baskets and meat safes. <br> - Non-Perishable: <br> - must be stored on shelves, cupboards and in dry, well-lit and ventilated areas, etc. <br> STORAGE EQUIPMENT <br> - Refrigerators <br> - Deep freezers <br> - Shelves <br> - Food baskets <br> - Food larder/meat safes etc. | Students brainstorm to come up with the meaning of the term. <br> Discuss the importance of appropriate storage of food. <br> Students to brainstorm to bring out various ways in which food commodities are stored in their respective localities. <br> NOTE: Food should not be stored on the floor because they absorb moisture. <br> Students to list equipment for storing food. <br> Discuss how each operates and the correct procedures for storing items. | Experiment <br> Students to observe the life span of a chosen food under different conditions over a period of two weeks <br> on shelve <br> in the fridge <br> in the freezer <br> on the floor <br> in a cupboard <br> Record findings and report in class. |

## SENIOR HIGH SCHOOL - YEAR 2 - TERM 1

## SECTION 1

## FLOUR COOKERY AND CONFECTIONERY

## General Objectives: The student will:

1. understand the principles underlying flour cookery.
2. be come aware of the various raising agents and their uses in different flour mixtures.
3. develop skills in the preparation and serving of flour products.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> TYPES OF FLOUR | The student will be able to: <br> 1.1.1 identity the different types of flour. <br> 1.1.2 explore the uses of the various kinds of flour. | TYPES OF FLOUR <br> Cereals - e.g. corn, rice, millet, sorghum/guinea corn, wheat, etc. <br> Tubers e.g. cassava, yam, cocoyam, plantain, etc. <br> Legumes e.g. beans, etc. <br> USES OF FLOUR IN COOKERY <br> For fried foods e.g. koose, pancake <br> - For steamed foods e.g. tubani, puddings <br> - Baked for baked foods e.g. bread <br> - For coating food e.g. batters <br> - As thickening e.g. corn flour | Display the different sources of flour and their flours for students to identify and follow with class discussion. <br> Experiment and discuss the gluten content of the various kinds of flour. <br> NOTE: Point out why wheat flour is mostly used for flour cookery. <br> Guide students to come out with new products using a combination of flours <br> Students to use the different flours in preparing some of the dishes in content. | Students write a report and present in class. <br> Students to evaluate the dishes prepared under: <br> - Texture <br> - Appearance <br> - Taste <br> - Creativity <br> - Originality |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 <br> BASIC <br> INGREDIENTS IN FLOUR COOKERY | The student will be able to: <br> 1.2.1 identify the basic ingredients in flour cookery. <br> 1.2.2 explain the importance of each ingredient to the success of the dish. | BASIC INGREDIENTS IN FLOUR COOKERY: <br> - Flour <br> - Fat <br> - Sugar <br> - Eggs <br> IMPORTANCE: <br> Flour - forms structure of the product, etc. <br> Fat - adds flavour, colour and makes dish tender etc. <br> Sugar - sweetens, preserves etc. <br> Eggs - adds nutritive value, tenderizes, colour and introduces raising agent - air etc. | Brainstorm and discuss the basic ingredients in flour cookery. <br> Display real ingredients for identification and discussion. Allow students to feel some of the ingredients for texture. <br> Assist students to experiment to determine the gluten content of different types of wheat flours. <br> Discuss the functions of each ingredient in flour cookery. <br> Discussion should include types of flour, fat and sugar. <br> Principle: Right proportion of ingredients, right mixing method and correct cooking temperatures. Are essential for successful result in flour mixtures. | Experiment: <br> Find out the presence of gluten in various types of flour. <br> 1. make dough from the different types of flour wheat, corn and cassava, etc. <br> 2. Tie doughs in muslin <br> 3. Wash each dough under water until the water is clear. <br> 4. Record your findings. Evaluate the experiment under the following: <br> - the presence or absence of gluten quantity of gluten strength of gluten |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 <br> RAISING AGENTS | The student will be able to: <br> 1.3.1 explain Raising Agent. <br> 1.3.2 identify the types and sources of raising agents. | RAISING AGENTS: <br> Raising agents are substances introduced into food to make them light, porous, and increase in volume. <br> TYPES:- <br> - Steam - Physical <br> - Carbon dioxide - Chemical <br> - Air - Mechanical <br> SOURCES: <br> - Steam - boiling liquid <br> - Carbon dioxide - baking powder, bicarbonate of soda, yeast or palm wine <br> - Air - through whisking, beating, sifting, rubbing-in, creaming, folding etc. | Brainstorm and explain the term raising agent. <br> Put students into groups to discuss the types and sources of raising agents. <br> NOTE: Explain the use of palm wine as a source of raising agent. <br> Students to perform these experiments to illustrate how air and carbon dioxide aerate mixtures. <br> - Air trapped by whisking egg white. <br> - Use litmus paper to test the presence of carbon dioxide using bi-carbonate of soda. <br> - Prepare two flour doughs with yeast in one and the other without. Students to compare the two doughs after an hour or two and draw conclusions for further discussions. | Assignment: <br> Students to find from the internet and other sources e.g. market, the different brands of baking powder and yeast and report in class for discussion. <br> Experiment: The production of carbon dioxide by yeast. Ferment yeast in a test tube. Tie the opened end of a balloon around the mouth of the test tube. Leave in a warm place for 15 mins. Write down your observation. <br> Repeat the experiment using fermented palm wine or pito. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 4 <br> BATTERS AND DOUGHS | The student will be able to: <br> 1.4.1 explain batters and doughs. <br> 1.4.2 describe the types of batters and doughs. <br> 1.4.3 explain the uses of batters and doughs in food preparation. | BATTERS <br> Batters are a mixture of flour, liquid and egg. <br> Doughs have the same ingredients as batters, but they are thicker and can be moulded by hand. <br> TYPES OF BATTERS <br> - Thin <br> - Thick /panada/fritter batter <br> - Coating <br> USE OF BATTERS <br> Thin- used for pancakes, Yorkshire puddings, etc. <br> Thick/panada/fritter batter - for binding and coating fruits, etc. <br> Coating - used to coat groundnuts, fish and meat, etc. <br> USES OF DOUGH: <br> Soft - used for bread, biscuits, scones etc. <br> Hard - used for pastries, etc. | Brainstorm and discuss the meaning of batters and doughs <br> Discuss the main types of batter and their uses in meal preparation and service. <br> Discuss the main types of doughs and their uses. | Assignment:- <br> Find out from the internet and other sources more about batters and doughs ie the dishes made from them and their variations. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 4 (CONT'D) <br> BATTERS AND DOUGHS <br> UNIT 5 <br> CAKES AND BISCUITS | The student will be able to: <br> 1.4.4 prepare dishes using batters and doughs. <br> 1.5.1 classify cakes and biscuits. | DISHES USING BATTERS <br> - 'Tubani' <br> - 'Koose/Akla' <br> - 'Aboloo' <br> - Pancakes <br> - Biscuits <br> - Doughnuts <br> - 'Ofam' etc <br> DISHES USING DOUGHS: <br> - Bread, scones <br> - Biscuits, pastries <br> - Doughnuts, 'epitsi' etc <br> CLASSIFICATION: <br> Cakes <br> - rubbed-in cake eg. rock buns <br> - creamed cakes eg. queen cakes <br> - whisked cakes eg. sponge cakes <br> - melted fat cakes eg. ginger bread. <br> Biscuits <br> - rolled <br> - piped <br> - dropped <br> - bar <br> - moulded etc. | Demonstrate the preparation of the dishes and follow up with class practical work using the different types of batters and doughs <br> NOTE: <br> Success in batter making depends on beating well to incorporate sufficient air. Teacher should encourage the use of local flours to make dishes. <br> Assist students to classify cakes. NOTE: Biscuits can also be classified according to the method used. | Assess practical work based on <br> - texture <br> - taste <br> - colour <br> - creativity in the use of seasonings and flavouring <br> - originality <br> Assignment: <br> Students to find other types of cakes and biscuits from internet and other sources. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 5 (CONT'D) <br> CAKES AND BISCUITS | The student will be able to: <br> 1.5.2 describe methods of making cakes and biscuits. <br> 1.5.3 prepare cakes and biscuits using the different methods. | CAKES AND BISCUITS <br> Methods: <br> - rubbing-in <br> - creaming <br> - whisking <br> - melting. <br> Biscuits are also made by the same methods as cakes. <br> CAKES: <br> Rubbing-in - rock cakes, etc <br> Creamed - queen cakes, etc <br> Whisked - swiss roll, etc <br> Melted - ginger bread, etc <br> BISCUITS: <br> Rubbed-in - short bread fingers, etc <br> Creamed - shrewsbury, etc <br> Whisked - sponge fingers, etc <br> Melted - ginger snaps/nuts, etc | Discuss with students the different proportion of ingredients for the different methods used in the preparation of cakes and biscuits <br> Demonstrate and follow with class practical work on the preparation of cakes and biscuits to illustrate the different types of cakes and biscuits <br> Emphasize the importance of accurate measurements, proper mixing, correct oven temperature and timing for success in cake making. | Assess dishes under the following: <br> - appearance <br> texture <br> taste <br> cost. <br> originality <br> and creativity in the application of the elements and principles of design. |


| UNIT |  | CIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNINGACTIVITIES | EVALUATION |
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| UNIT 6 <br> PASTRIES | The stu 1.6.1 | ent will be able to: <br> state the different types of pastries. | TYPES OF PASTRIES: <br> - Short crust <br> - Suet <br> - Flaky <br> - Rough puff <br> - Choux | Discuss the different types and characteristics of pastry mixtures under content. <br> Discussion should include proportion of ingredients and methods used in the preparation of each. | Assess finished products under the following headings: <br> appearance <br> texture <br> taste <br> cost <br> originality <br> and creativity in the application of the elements and principles of design |
|  | $1.6 .2$ | explain the principles underlying pastry making. | PRINCIPLES: <br> - Handle as little as possible <br> - Keep ingredients cold <br> - Use correct temperature in baking etc. | Discuss the principles underlying pastry making. <br> Assist students to find explanations for principles. |  |
|  | 1.6 .3 | prepare different pastry dishes. | PASTRY DISHES: <br> - Turnovers <br> - Jam tartlets <br> - Cornish pasties etc. | Demonstrate and follow up with class practical work on pastries using both baking and frying methods of cooking. <br> Teacher to stress the difference between pies and turnovers. <br> Value - Be honest by using the correct filling for pastries. |  |
| UNIT 7 <br> YEAST MIXTURES | 1.7.1 | explain what yeast mixtures are and identify the different ways of preparing yeast mixtures. | YEAST MIXTURES <br> Yeast mixtures are mixtures prepared using yeast as the source of raising agents. <br> DIFFERENT WAYS OF PREPARING YEAST MIXTURES: <br> - Convectional method:dissolve yeast in warm water and add to the flour. | Brainstorm on what yeast mixtures are with examples. |  |
|  |  |  |  | Discuss the different ways of preparing yeast mixtures. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 7 (CONT'D) <br> YEAST MIXTURES | 1.7.2 outline the important | IMPORTANT POINTS IN PREPARING YEAST MIXTURES: <br> - Flour must be strong <br> - Use correct proportion of yeast to flour <br> - Mixing and kneading must be thorough <br> - Proving must be complete <br> - Use of correct temperature to prove and bake mixture. | Discuss the important points in preparing yeast mixtures. <br> Discuss the proportions of yeast to flour and the ingredients involved in preparing yeast mixtures. | Assess dishes under the |
|  | 1.7.3 prepare dishes using yeast mixtures. | YEAST DISHES <br> - Bread loaves <br> - Bread rolls <br> - Doughnuts <br> - ring <br> - puff loaves <br> - "Aboloo" etc. | Demonstrate the preparation of dishes and follow up with class practical work in the preparation of yeast mixtures using frying and baking methods. | following headings:- <br> - appearance <br> - texture <br> - taste <br> - cost. <br> - and creativity |
|  |  |  | Visit a commercial bakery and observe the processes for large- scale bread production. Write a report. | $t$ for: <br> ingredients used method used types of equipment used packaging marketing strategy |
|  | 1.7.4 explain sandwiches and identify the different kinds. | SANDWICH: <br> Any filling on top of or between any outer covering of bread, roll, muffins, pastry and biscuits. | Students to brainstorm for the meaning of the term Sandwich. Follow up with a discussion of their nature and ingredients used. | Students to classify the kinds of sandwich under closed and open sandwich. |
|  |  | KINDS: <br> - Hearty/Lunch box/picnic sandwiches. <br> - Finger Sandwich/small dainty/ canapé's <br> - Flat or rolled <br> - Pinwheel sandwich, check board sandwich. <br> - Hot sandwiches e.g. Hamburgers, sandwich toasts | Discuss the different kinds of sandwiches. Show pictures or real examples of each where possible. <br> Discussion should include the occasions when the sandwich is used e.g. for cocktails, picnics, and main meals |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 7 (CONT'D) YEAST MIXTURES | The student will be able to: <br> 1.7.5 prepare and serve different kinds of sandwiches. | STEPS IN PREPARING SANDWICHES: <br> - Prepare filling. <br> - Place 2 slices side by side on flat surface. <br> - Spread with fat. <br> - Spread filling on one of the slices. <br> - Cover with other half and press down slightly. | Demonstrate and follow with class practical work on the preparation of sandwiches. <br> NOTE: Stress the following: <br> - Use old bread but should not be more than three days old. <br> - Slices should be about $1 / 2 \mathrm{~cm}-1 \mathrm{~cm}$ thick. <br> - Spread should be at room temperature for easy spreading. <br> - Filling should be dry to prevent bread from being soggy. <br> - Keep in sandwich bag/film/ foil/grease-proof paper/ polythene bag/clean tea towel to prevent dryness and contamination, especially if not to be eaten immediately. | Assess products based on <br> - shape <br> - sizes <br> - taste <br> - appearance <br> - and creativity in the application of the elements and principles of design |

## SENIOR HIGH SCHOOL - YEAR 2 - TERM 2

SECTION 2
SUGAR CONFECTIONERY
General Objectives: The student will:

1. be aware of the different types of sugar and their uses in food preparation.
2. develop skills in decorating cakes.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> SUGARS | The student will be able to: <br> 2.1.1 identify the various types of sugar. <br> 2.1.2 explain the general uses of sugar. | TYPES <br> - Granulated <br> - castor <br> - brown (demerara) <br> - icings <br> - glucose <br> - Cube <br> GENERAL USES OF SUGAR <br> - Sweeteners <br> - Syrup <br> - Caramel <br> - Treacle <br> - Decoration <br> - Preserving agent <br> - A source of energy in the body, etc. | Brainstorm and discuss the various types of sugar. <br> Group discussion on the general uses of sugar in meal preparation and service. <br> Value: Stress the values of honesty, love, truthfulness by not using saccharin instead of sugar in making bread. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 | The student will be able to: |  |  |  |
| SUGARS CONT'D <br> UNIT 2 | 2.1.3 describe the effect of heat on sugar. | EFFECT OF HEAT ON SUGARS: <br> Moist heat $\rightarrow$ syrup $\rightarrow$ golden syrup $\rightarrow$ caramel $\rightarrow$ treacle <br> Dry heat $\rightarrow$ caramel $\rightarrow$ treacle <br> USES: <br> - For candies - toffees <br> - brittles e.g. (groundnut, coconut) <br> - fudges (alewa) <br> - For colouring eg. caramel \& treacle. <br> - As base for puddings/custards eg. caramel custard. | Experiment to find out the effect of moist and dry heat on sugar. <br> Use caramel to prepare candies and toffees. | Assess the finished products. Look out for: <br> - texture <br> - colour <br> - taste <br> - packaging <br> - presentation <br> - creativity <br> - originality |
| ICINGS | 2.2.1 identify various types and uses of icing. | TYPES OF ICING: <br> - Butter <br> - Glacé <br> - Sugar Paste <br> - Royal <br> USES: <br> - Decorating - Filling $\left\{\begin{array}{l}\text { Cakes } \\ \text { Biscuits } \\ \text { Pastries }\end{array}\right.$ | Discuss the various types of icing and their uses in food decoration. | Students to visit a cake decoration school where possible. <br> Observe procedures and present written reports on. <br> - equipment used <br> - types of decoration <br> - marketing etc. |
| UNIT 3 | 2.2.2 prepare royal and butter icing. | PREPARATION OF ICING <br> - Royal <br> - Butter | Demonstrate and prepare royal and butter icing with students and store icing properly to be used much later. <br> Invite a resource person to demonstrate cake decoration with butter and royal icing. | Assess the finished products based on <br> - appearance <br> - taste <br> - texture <br> - originality <br> - creativity in the application of the elements and principles of design |
| CAKE <br> DECORATION | 2.3.1 decorate cakes. | CAKE DECORATION <br> Using royal and butter icing. | Demonstrate how to decorate cake and let students practice cake decoration. | Assess the finished products based on <br> - appearance <br> - cost and price of the products <br> - creativity <br> - originality |

## SENIOR HIGH SCHOOL - YEAR 2 - TERM 2

## SECTION 3

## FAMILY MEAL MANAGEMENT

General Objectives: The student will:

1. acquire skills in planning meals to meet individual and family needs.
2. develop skills in using left-over and convenience foods in food preparation.

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| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> MEAL PLANNING | The student will be able to: <br> 3.1.1. explain basic terms associated with meal planning. <br> 3.1.2. state reasons for planning meals. <br> 3.1.3. explain factors to consider in meal planning. | MEAL PLANNING TERMS: <br> - Dish <br> - Course <br> - Meal <br> - Balanced meal <br> - Menu <br> - Main dish <br> - Main meal <br> - Accompaniment, etc <br> REASONS FOR PLANNING MEALS: <br> - Efficient use of resources <br> - To bring about variety <br> - To cater for nutrient needs of family members etc. <br> FACTORS IN PLANNING MEALS: <br> - Nutrient needs of members. <br> - The type of meal. | Brainstorm and discuss basic terms associated with meal planning. <br> Brainstorm to come out with reasons for planning meals. Discuss how each impact on the meals of individuals and families. <br> Students discuss in groups factors that affect the planning of meals for the family. <br> Teacher supplements where necessary. | Class Test <br> Use flash cards to test students on their understanding of the terms. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 1 (CONT'D) MEAL PLANNING | The student will be able to: <br> 3.1.4. describe different meal patterns. | - Resources available <br> - money <br> - energy <br> - time <br> - equipment <br> - food <br> - knowledge and skills <br> - Size of family <br> - Likes and dislikes/preferences <br> - Health conditions <br> - Proportion of major nutrients in a meal <br> MEAL PATTERNS: <br> The number of times, and time of the day that meals are eaten make up a meal pattern. <br> MEALS OF THE DAY: <br> - Breakfast <br> - Lunch <br> - Supper <br> - Snacks <br> - Brunch etc. | NOTE: The average proportion of the major nutrients in a meal is: <br> Protein 20\% <br> Carbohydrate 30\% <br> Fruits and Vegetables 50\% <br> Through questions, let students come out with the number of times they eat in a day. Discuss the various meal patterns. <br> NOTE: <br> - The typical local meal patterns are Breakfast, Lunch and Supper. <br> - Snacks are eaten between main meals. They have to be equally nutritious and refreshing. Avoid empty calorie snacks <br> - Emphasize the importance of eating Breakfast daily. | Assign students to plan a two-course lunch for a family. |


| UNIT | SPECIFIC OBJECTIVES | CONTEN |  |  | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 <br> MEALS FOR <br> SPECIAL GROUPS | The student will be able to: <br> 3.2.1 explain the nutrient needs and precautions to take when planning meals for special groups of people. | SPECIAL GROUPS AND THEIR NEEDS: <br> - Weaning babies <br> - Toddlers <br> - School children <br> - Adolescents <br> - Pregnant women <br> - Lactating mothers <br> - Working people <br> - Manual <br> - Sedentary <br> - The aged <br> - Vegetarians |  | HEIR <br> CENTS <br> ditions | Assist students to discuss each group under the following: <br> - nutrient needs <br> - points to note <br> - serving considerations e.g. small portions at a time for toddlers. <br> Group students to plan meals for the different groups and report in class for discussion. |  |
|  | 3.2.2 prepare and serve meals for people with special needs. <br> 3.2.3 plan meals using the format for practical | PREPARATION OF MEALS FOR SPECIAL GROUPS <br> - Weaning babies - Weanimix, etc. <br> - Vegetarian - Mixed vegetable stew, etc <br> - Adolescents, etc. |  |  | Demonstrate the preparation of meals for special groups. Follow with a class practical work. <br> NOTE: Stress the correct use of equipment, appropriate cooking methods, the need for kitchen safety and sanitation. <br> Discuss the format based on the requirements of each section. | Class assessment of plans. <br> Assess dishes under the following: <br> - taste <br> - appearance <br> - nutrient requirement <br> - overall presentations of meals. |
|  | plan meals using the format for practical test. | Dishes chosen | Interpretations/ Reasons for choice | Chief Ingredients and quantities | Students to plan meals using the WASSCE format. | presentation. |



| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 3 (CONT'D) <br> RECHAUFFÉ/ LEFT OVER FOODS <br> UNIT 4 CONVENIENCE FOODS | The student will be able to: <br> 3.3.3 state the rules to observe in the use of left over foods. <br> 3.3.4 prepare dishes with left over foods <br> 3.4.1 explain Convenience Foods. | RULES FOR USING LEFT OVER FOODS: <br> - Foods should be heated quickly and should be coated where possible. <br> - Left over foods should not be stored for too long before using. <br> - Keep left over food in clean, airtight containers <br> - Rechauffé dishes should be moistened with gravies, sauces and soups since dishes might be dry. <br> - Rechauffe foods should be served with fresh foods eg. vegetables <br> RECHAUFFÉ DISHES: <br> - 'Aprapransa,' <br> - Yam/fish balls, <br> - Shepherd's pie. <br> - Kedgree <br> - Rice pudding etc. <br> CONVENIENCE FOODS: <br> Foods that are partially or completely processed by the manufacturer. | Discuss important points to observe when using left over foods. <br> NOTE: Stress the need to garnish or decorate such foods to enhance appearance <br> Demonstrate the preparation of dishes and follow up with class practical work. <br> Students could work in groups or individually where possible. <br> Let them display their finished dishes for assessment. <br> Discuss with students the term convenience foods and let them come up with their own explanation. <br> Role-play a scenario of two families where one used convenience food while the other prepared food from the scratch. <br> Discuss the scenario bringing out the definition of convenience food. | Assess dishes under the following: <br> - appearance <br> - taste <br> - texture <br> - originality <br> - creativity |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 4 (CONT'D) <br> CONVENIENCE FOODS | The student will be able to: <br> 3.4.2 classify convenience foods based on the extent of preparation <br> 3.4.3 outline the advantages and disadvantages of convenience foods. <br> 3.4.4 prepare different dishes using convenience foods. | TYPES <br> - Ready to use foods: are those that require some amount of preparation e.g. <br> - dressed poultry <br> - cake mixes <br> - custard powder <br> - 'kokonte' flour <br> - 'gari' <br> - roasted corn flour <br> - Ready to serve: are those which have been completely processed e.g. <br> - ice cream <br> - canned fish/meat <br> - corn flakes. <br> - 'gari' <br> - bread etc. <br> ADVANTAGES:- <br> - Saves time and energy in food preparation. <br> - Provides variety etc <br> DISADVANTAGES: <br> - Comparatively expensive than home made <br> - Most cereal based ones are prepared from refined cereals and lack dietary fibre etc <br> - May contain excess salt or sugar <br> - <br> DISHES: <br> - "Gari fot?" <br> - Sardine sandwiches <br> - Fruits in yogurt | Students list some of the convenience foods including local ones they use or know of and group them according to the two types. <br> NOTE: Stressed that when canned food are opened, they should not be left in the can. <br> Students in groups to discuss the advantages and disadvantages of using convenience foods and present for discussion. | Assignment: <br> Students to watch T.V. over a week and record the types of convenience foods advertised and report in class. <br> Assess students practical work under <br> - appearance <br> - taste <br> - preparation time <br> - cost <br> - originality <br> - creativity |


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| UNIT 5 <br> FAST FOODS | The student will be able to: <br> 3.5.1 explain the term Fast Food. <br> 3.5.2 outline the advantages and disadvantages of Fast Foods. | Fast Food <br> Food that can be prepared and served very quickly. Usually food that can be taken away. <br> ADVANTAGES AND DISADVANTAGES <br> Advantages <br> - Saves time and effort of cooking a meal at home. <br> - It makes it easy for a working individual to get a meal. <br> - It is cheaper for an individual <br> Disadvantages <br> - Has high amounts of fat, sugar and salt <br> - Contributes to obesity <br> - Cardiovascular diseases and other related heart diseases <br> - Disease of the joints <br> - Makes families spend less and less time together <br> - High risk of suffering from stroke <br> - Expensive when large quantities are purchased | Brainstorm and come out with the meaning of Fast Foods. <br> Discuss students' responses. <br> Students in groups to discuss the advantages and disadvantages of fast foods and present for discussion. <br> NOTE: Stress that students should not make it a habit of eating fast foods. | Students to visit the internet where possible and find out all about Fast Foods - types, advantages and disadvantage, etc. |

## SENIOR HIGH SCHOOL - YEAR 2 - TERM 3

## SECTION 4

STOCKS, SOUPS AND SAUCES<br>General Objectives: The student will:

1. appreciate the significance of stocks, soups and sauces in food preparation
2. develop skills in preparing stocks, soups and sauces

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> STOCKS | The student will be able to: <br> 4.1.1 explain the term Stock. <br> 4.1.2 mention various types of stocks. <br> 4.1.3 state the nutritive value of stocks. | STOCK: <br> Is a liquid in which meat, beans or vegetables have been simmered gently for a number of hours. <br> TYPES: <br> - Best/First class <br> - made from the best cuts of meat, fish and vegetables. <br> - Household/ emergency. - made from scraps of fish, bones and vegetables, etc <br> NUTRITIVE VALUE: <br> - Small amount of proteins, carbohydrates and fats. <br> - Traces of mineral elements and vitamins. <br> - Water <br> The value of stock is from the extractives, which stimulate the digestive juices. | Discuss with students to bring out the meaning of stock. <br> Discuss the types with examples. -Brown stock, white stock, game stock, fish stock, vegetable stock, etc <br> Discuss the nutritive value of stocks. | Market Survey: <br> Students to find out from the market the different stock cubes and powders and the dishes they are used for. Record findings and discuss in class. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 1 (CONT'D) STOCKS | The student will be able to: <br> 4.1.4 list the uses of stocks in the diet. <br> 4.1.5 prepare the different types of stocks. | USES: <br> Serve as base or foundation for : <br> - Sauces <br> - Soups <br> - Gravies <br> PREPARATION <br> Points to note: <br> - Cleanliness and freshness of all ingredients. <br> - Use of small divisions of meat <br> - Removal of fat. <br> - A balance proportion of ingredients. <br> - Careful addition of herbs and spices. <br> - Cooking of meat for a longer period than vegetables. <br> - Removal of white scum and fat from the surface. <br> - A strong pan with a wellfitting lid should be used. <br> - Never leave stock in the pan overnight | Discuss the uses of stocks in the diet. <br> Demonstrate and prepare some of the types of stock with students. <br> Help students with practical work on stocks. | Assess the finished products based on <br> - consistency <br> - taste <br> - appearance <br> - flavour |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 2 SOUPS | The students will be able to: <br> 4.2.1 explain the term soup. <br> 4.2.2 mention various types of soup. <br> 4.2.3 outline the functions of soups in the diet. | SOUPS <br> Soup is a clear or thick liquid food made from meat, fish, vegetables and stock. <br> - it can be hot or cold, light or heavy, creamy or clear. <br> - it can be an appetizer or main dish. <br> TYPES OF SOUPS Foreign: <br> - Thin <br> - clear soups <br> - broth <br> - Thick <br> - purées <br> - proper <br> - bond <br> - Thickened <br> - brown <br> - white <br> - bisques (fish) <br> Local: <br> - Light soup e.g. goat/fish soup <br> - Thick/thickened soup e.g. palmnut/groundnut/agushie <br> - Vegetable soup e.g. okro, alefo, kontomire, etc. <br> FUNCTIONS OF SOUPS <br> - It stimulates the digestive juices with its flavour. <br> - It is a hot start to a meal in cold weather. | Assignment: <br> Discuss the term soup and the various types. <br> Put students into groups to discuss and present the various soups prepared in their homes. <br> Assist students to group the soups under the various types <br> Discuss the functions of soups in the diet. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 (CONT'D) SOUPS | The student will be able to: <br> 4.2.4 explain the uses of soups in the diet. <br> 4.2.5 prepare and serve different types of soups. | - It is used in invalid cookery to stimulate the appetite. <br> - Improves the nutritive value of meals. <br> - Adds liquid to the diet <br> USES: <br> - Appetizers (first courses) <br> - Main dish <br> - As an invalid food etc. <br> PREPARATION OF SOUPS: <br> Points to note: <br> - Rich flavour depends on the ingredients used. <br> - Use sufficient seasoning . <br> - Skim off excess fat. <br> - Must have a good colour. <br> - Use correct proportion of ingredients etc. | Discuss the uses of soups in the diet. NOTE: In Ghana soups are used mainly as main dishes and not as first course. <br> Demonstrate and prepare some of the types of soups. <br> Students to work in groups to prepare different soups, using different methods. <br> They should dish out the soups for assessment. | Assignment: <br> Students to look for different brands of packaged soups and find out how they are used and report in class. <br> Assess the finished products based on <br> - appearance <br> - consistency <br> - flavour (taste and aroma) <br> - creativity <br> - balance in terms of seasoning \& flavour |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
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| UNIT 3 <br> SAUCES | The student will be able to: <br> 4.3.1 explain the term sauce <br> 4.3.2 classify sauces | SAUCE: <br> Sauce is a well flavoured liquid containing a thickening agent. <br> CLASSIFICATION OF SAUCES: Foreign: <br> - Those made with a roux. <br> - household sauces <br> - white sauce <br> - brown sauce <br> - Cooked egg sauces: <br> - custards <br> - hollandaise <br> - German egg sauce <br> - Cold Sauces: <br> - mayonnaise <br> - chaudfroid <br> - mint sauce <br> - simple salad dressing. <br> Local: <br> - Palava sauce <br> - Pepper sauce (fresh for kenkey and banku) <br> - Shito <br> - Gravy sauce | Brainstorm and come out with the meaning of a sauce. <br> Discuss the classification of sauces. | Assignment: <br> Students to look out for the types of sauces from the internet and other sources and state their use. Report for class discussion. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 (CONT’D) SAUCES | The student will be able to: <br> 4.3.3 identify the nutritive value of sauces. <br> 4.3.4. outline the uses of sauces in the diet. <br> 4.3.5. prepare different types of sauces. | NUTRITIVE VALUE: <br> Sauces add to the nutritive value of meals especially the egg and milk based types. <br> USES OF SAUCES: <br> - Impart new flavours to a dish. <br> - Add to the nutritive value of a dish <br> - Improve the texture and appearance of certain dishes. <br> - Bind food together. <br> - Add colour to a dish. <br> - Improve the richness of certain dishes etc. <br> PREPARATION OF SAUCES: <br> - Roux method <br> - Mayonnaise <br> - French dressing <br> - Shito <br> - Egg Custard | Discuss the nutritive value of sauces. <br> Put students in groups to discuss the general uses of sauces in the diet. <br> Let them present their points for class discussion. <br> Demonstrate the preparation of sauces and let students do practical work | Project: <br> Students to explore their localities for local foods that can be used to prepare sauces. Let them prepare detected sauces in class. <br> Assessment: <br> Look for <br> - originality <br> - creativity <br> - Texture <br> - Flavour <br> Assess products based on <br> - smoothness <br> - taste <br> - appearance <br> - flavour |

## SENIOR HIGH SCHOOL - YEAR 2

## SECTION 5

BEVERAGES
General Objectives: The student will:

1. appreciate the importance of beverages in the diet.
2. develop skills in the preparation and serving of non-alcoholic beverages.


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 (CONT'D) <br> TYPES OF BEVERAGES <br> UNIT 2 <br> PRINCIPLES UNDERLYING THE PREPARATION OF BEVERAGES | The student will be able to: <br> 5.1.2 explain the importance of beverages in the diet. <br> 5.2.1. describe the methods used in the preparation of beverages. <br> 5.2.2. explain the principles underlying the preparation of beverages. | IMPORTANCE: <br> - Contribute water to the diet. <br> - Some are stimulants <br> - Some provide nutrients <br> - Some provide refreshment, etc <br> METHODS <br> - Infusion <br> - Filtration <br> - Percolation <br> - Extraction, etc <br> PRINCIPLES <br> - Tea: <br> - to develop flavour and to extract as little tannin as possible, in order to avoid strong bitter taste. Etc. <br> - Fruit drink <br> - fruits must be fresh <br> - do not over handle juice etc. | In small groups, students discuss and present in class, the importance of beverages. <br> Teacher supplements where necessary. <br> NOTE: Stress that alcohol is a drug and even small quantities impair judgement. <br> Discuss the methods and how they are used in the preparation of beverages. <br> NOTE: Discussion should include the meaning of the methods. <br> Discuss the principles underlying the preparation of tea, coffee, cocoa and fruit drinks. | Project work. <br> Students work in groups to find out indigenous raw materials used for drinks and experiment in class. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 (CONT'D) <br> PRINCIPLES UNDERLYING THE PREPARATION OF BEVERAGES | The student will be able to: <br> 5.2.3 prepare and serve beverages. | - Coffee: <br> to extract maximum amount of caffeine and flavouring but minimum amount of tannin etc. <br> - Cocoa contains starch and must be boiled to cook the starch etc. <br> PREPARATION OF BEVERAGES <br> - Cocoa <br> - Fruit juices <br> - Fruit drinks. <br> - Vegetable drink e.g. carrots <br> - Cereal drinks | Demonstrate and follow up with a Class practical work on preparation and serving of beverages using the different methods listed under content 5.2.1. <br> NOTE: Stress the thorough blending of cocoa with cold water before cooking. <br> Attention should be given to the preparation of syrup for fruit drinks. <br> This should be allowed to cool before adding to the fruit juice. | Assignment: <br> Students to: <br> Visit a local brewery to collect information on the following: <br> - Ingredients used for drinks. <br> - Methods of preparation. <br> - Storage and other relevant information. <br> Assess the different drinks in terms of <br> - flavour <br> - colour <br> - taste <br> - creativity <br> - originality |

## SENIOR HIGH SCHOOL - YEAR 2

## SECTION 6

## FESTIVE AND FESTIVAL DISHES

General Objective: The Student will:

1. plan and prepare meals for specific festivals and festive occasions.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> FESTIVE DISHES | The student will be able to: <br> 6.1.1 explain festive dishes. <br> 6.1.2 identify occasions during which festive dishes are prepared. | FESTIVE DISHES: <br> Festive dishes are dishes prepared to celebrate happy occasions which call for feasting to befit the importance of the celebration e.g. birthday cake, jollof rice with chicken. <br> OCCASIONS FOR FESTIVE DISHES: <br> - Christmas <br> - Easter <br> - Weddings <br> - Birthdays <br> - Funerals <br> - Graduation etc. | Students to brainstorm for the meaning of festive dishes. <br> Students to discuss different Ghanaian festive dishes with teacher's assistance <br> Students to discuss and come out with the different festive occasions. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 (CONT'D) FESTIVE DISHES | The student will be able to: <br> 6.1.3 identify the different festive dishes. <br> 6.1.4 prepare and serve festive dishes. | FESTIVE DISHES <br> - "Jtכ" with eggs <br> - Jollof rice with chicken <br> - Cakes and biscuits <br> - Fried rice <br> - Groundnut soup and rice balls <br> - Groundnut soup with chicken and "fufu". <br> - "Tuo Zaafi" with leafy soup, etc. <br> FESTIVE DISHES <br> - "Jtว" with eggs <br> - Jollof rice with chicken <br> - Cakes and biscuits <br> - Groundnut soup with chicken and "fufu". <br> - Fried rice <br> - Groundnut soup and rice balls, etc. | Discuss the different festive dishes from different communities. <br> Demonstrate the preparation of some festive dishes and let students do practical work. | Assess dishes under the following: <br> - appearance <br> - preparation time <br> - cost etc. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT |  |  | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| UNIT 2 <br> FESTIVAL DISHES | The student will be able to: <br> 6.2.1 explain festival dishes. |  |  |  | FESTIVAL DISHES <br> Festival dishes are dishes prepared during festivals of ethnic groups. Sometimes special ingredients and utensils are used. <br> Students to discuss festivals in their localities and the sort of dishes associated with the festivals. |  |
|  | 6.2.2 explain the history of festival dishes. | History of <br> 'Homowo' <br> 'Damba' <br> 'Aboakyer <br> ‘Bakatue’ <br> Yam <br> 'Bugum' <br> 'Hogbetsts | estival Dis <br> ' etc. |  | Students to share history behind festival dishes prepared in their ethnic groups. <br> NOTE: Stress the significance of the festivals and dishes. <br> Resource persons from the community can be invited to demonstrate the preparation of some festival dishes. | Project: <br> 1. Explore histories of festivals of other ethnic groups and report in class <br> 2. Find out about the historical background of some festival dishes. |
|  | 6.2.3 identify dishes prepared during festivals. | Dish | Festival | Ethnic Group | Students in groups, to discuss and come out with dishes of festivals of different ethnic groups, by | Identify positive and negative preparation |
|  |  | Kpopkoi and palm soup $\qquad$ | Homowo | Ga |  | Make suggestions for improvement where necessary. Write reports for presentation. |

## SENIOR HIGH SCHOOL - YEAR 3 - TERM 1

## SECTION 1

## THE ART OF ENTERTAINING

## General Objectives: The student will:

1. appreciate the value of entertainment in social life.
2. be aware of different forms of food service styles.
3. recognize the importance of creativity and artistic abilities in food presentation.
4. practise basic table etiquette at mealtimes.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> TYPES OF ENTERTAINMENT | The student will be able to: <br> 1.1.1 explain the concept of entertaining. <br> 1.1.2 identify the types of entertainment. <br> 1.1.3 outline types of parties. | ENTERTAINING: <br> Entertaining is a way of expressing hospitality to people, making them feel welcome and special. <br> TYPES OF ENTERTAINMENT <br> - Parties <br> - Film shows <br> - Concerts <br> - Dance <br> - Playing cards <br> - Rock shows etc. <br> TYPES OF PARTIES. <br> - Dinners <br> - Luncheons <br> - Cocktails <br> - Buffets <br> - Tea parties <br> - Children's parties etc. | Students to brainstorm and discuss the meaning of entertainment. <br> Students to mention the different forms of entertainment. <br> Discuss the entertainment forms that involve food of some sort. <br> Students in groups to list different types of parties and discuss what goes into organizing each of them. |  |
|  | 1.1.4 identify occasions during which parties are held. | OCCASIONS <br> - Festivals <br> - Birthdays <br> - Marriages <br> - Christenings <br> - Graduations etc. | Discuss with students occasions during which parties are held. <br> NOTE: Teacher should assist students to differentiate between formal and informal parties. | Assignment: <br> Interview one successful person in the food entertainment industry. Find out how he/she started and why he/she became successful. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| TYPES OF ENTERTAINMENT | The student will be able to: <br> 1.1.5 explain points to consider when selecting a type of party. | POINTS TO CONSIDER WHEN SELECTING A TYPE OF PARTY: <br> - Cost/money <br> - Occasion <br> - Space available <br> - People involved (age) <br> - Equipment available <br> - Skill of organizer <br> - Whether formal or informal etc. | Discuss the points to consider when selecting a type of party. | Group Assignment <br> Choose an occasion for entertainment and plan a party: <br> - State type of party <br> - Number of people <br> - Dishes to be served <br> - Write the invitations to be sent to your guests |
|  | 1.1.6 explain factors that contribute to the success of parties. | FACTORS <br> - Good planning <br> - Effective ordering of activities <br> - Well prepared food <br> - Proper utilization of space <br> - Appropriate music <br> - Sending invitation ahead of time <br> - Efficiency of host/hostess <br> - Presence and comportment of guests. etc | Discuss with students the requirements for a successful party. <br> Plan how to write formal/informal invitations with students. <br> Students plan and write invitation letters to their friends and Headmistress/master. <br> NOTE: Stress the need to wear the proper attire when entertaining. |  |
| UNIT 2 <br> TABLE SETTING AND TABLE ETIQUETTE | 1.2.1 describe the procedure to follow in setting tables and trays for different meals and occasions. | SETTING TABLES <br> Cover - is the `arrangement of a place setting for one person. <br> - consists of all the dinner ware, glassware and cutlery used by one person at the table. | Demonstrate the proper way of setting a table and tray for different meals and occasions. <br> Show pictures of different tableware such as table coverings, silverware, dinner ware and centre piece or real ones where possible. |  |
|  |  | Table Appointment (all items needed for setting a table) <br> - Flatware <br> - Glassware <br> - Dinnerware <br> - Centrepiece <br> - Table coverings/linen | Discuss features of each group of table appointment under the following: <br> - Type <br> - Care <br> - Use <br> Class practical work on table and tray setting. |  |
|  |  | - placemats <br> - napkins <br> - table runners | Encourage students to work in small groups and individually as much as possible. <br> Stress the need for absolute cleanliness when setting a table or tray. | Assess students practical work Look for : <br> -appropriate placement of table appointments <br> - cleanliness/appearance of table. |
| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UINIT 2 (CONT'D) <br> TABLE SETTING AND ETIQUETTE <br> UNIT 3 <br> MEAL SERVICE STYLES | The student will be able to: <br> 1.2.2 explain table manners. <br> 1.2.3 exhibit appropriate table manners during meals. <br> 1.3.1 identify the different types of meal service. <br> 1.3.2 identify the styles of meal service. | TABLE MANNERS/ETIQUETTE: <br> Table manners are actions or behaviours that are considered appropriate at table or a set of rules of behaviour at table. <br> It is one way of showing consideration and regard for others during meal times at school dinning hall, cafeteria, restaurants or as guest. <br> APPROPRIATE TABLE MANNERS: <br> - Be on time for meals <br> - Do not talk with food in your mouth. <br> - Be courteous/ask politely etc. <br> TYPES OF MEAL SERVICE: <br> Formal - strict adherence to rules and regulations. <br> Informal - casual, no restrictions. <br> INFORMAL STYLES: <br> - Family style service or pass around. <br> - dinner plates are set out at each person's place. <br> - main foods are in serving dishes on the table and are passed from person to person. | Students to role-play a scenario where two people are eating at table depicting different behaviours. <br> Discuss the role-play to bring out good and bad behaviours exhibited. Link this to explain table etiquette. <br> Discuss with students the appropriate manners at table. <br> Guide students to discuss various types of meal services. <br> Discuss the different meal service styles at home and public eating places. <br> - Fieldtrip: <br> Visit public eating places including restaurants to observe meal service styles. <br> Teacher assists students to arrive at the main styles of meal service | Class exercise: <br> Students to write problem situations they are likely to face when eating out or away from home. <br> Home work: <br> Students should interview owners or managers of public eating spots/ restaurants to see how they operate. |
| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 (CONT'D) <br> MEAL SERVICE <br> STYLES | The student will be able to: <br> 1.3.3 explain the factors that determine the choice of style | - Plate Service: <br> - food is served from the kitchen on each person's plate. <br> - the diners are the servers. <br> - Head-of-Table/English. <br> - often used by families for special occasion meals. <br> - food is served by host/hostess and passed to family members and guests. <br> - Buffet Service: <br> - for entertaining larger number of guests. <br> - comprises an array of dishes. <br> - guests serve themselves. <br> FORMAL STYLES: <br> - Russian or continental <br> - used for banquets and in restaurants. <br> - waiters/waitresses are used. <br> - meals are served in courses. <br> - some dishes are served from the kitchen and others at the table. <br> FACTORS DETERMINING CHOICE OF SERVICE STYLE: <br> Factors: <br> - Type of meal <br> - Time available <br> - Space available <br> - Number of people <br> - Availability of helpers. etc. | Students to role-play different types of table service. Use actual tableware to make them seem real. <br> Have others guess the type of service being shown. <br> Discuss with students other meal service styles particularly the formal ones. <br> Mention the advantages and disadvantages of each style. <br> NOTE: A buffet is both a service and a type of party. <br> Teacher facilitates a discussion on the factors that determine meal service styles. | Assignment: <br> Students should explore other styles of meal service and report in class. |

## SENIOR HIGH SCHOOL - YEAR 3

## SECTION 2

## EXPERIMENTAL COOKERY

General Objective: The student will:

1. acquire knowledge and skills in developing recipes.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> RESEARCH INTO LOCAL DISHES AND DRINKS | The student will be able to: <br> 2.1.1 explain the importance of research in Food and Nutrition. <br> 2.1.2 collect/gather information on recipes of local dishes and drinks. | IMPORTANCE OF RESEARCH IN FOOD AND NUTRITION: <br> - Leads to the development of new recipes. <br> - Leads to improvement of existing recipes. <br> - Helps to solve problems associated with food. <br> - Help solve problems associated with nutrient deficiencies etc. <br> COLLECTION OF INFORMATION (DATA): <br> - Use interview and observation to collect information on local dishes and drinks. <br> - Sources of data: observation, interview. | Discuss the need for research in Food and Nutrition and how to collect data for improving recipes. <br> NOTE: Stress that to improve recipes you have to go out for information. <br> Teacher should not wait to teach this topic at this time. It can be taught at anytime of the term. <br> Assist students to develop simple interview guides and check list for observation. <br> Students to collect information on local dishes and drinks from their locality and write report for presentation. |  |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 <br> IMPROVEMENT OF NEW RECIPES | The student will be able to: <br> 2.2.1 improve upon existing/dying out recipes. <br> 2.2.2 undertake experiments with lesser known foods. | IMPROVING DISHES BASED ON: <br> - Methods of preparation. <br> - Nutritional value <br> - Time and energy use. <br> - Serving/ presentation of food. <br> EXPERIMENTS: <br> Using: <br> - Wild fruits <br> - Other types of flour e.g. <br> - root flour, <br> - cereal flour <br> - legume flour. | Students to identify dishes from various communities which need to be improved. <br> Students perform experiment to improve: <br> - nutritive value <br> - appearance <br> - taste <br> - texture <br> - preparation time. <br> - presentation of dishes <br> Teacher to guide students to perform experiments and write out the new recipes. <br> Students to compare products of experiments with existing products/recipes. <br> Students to develop new recipes from flour by combining different types of flour. | Compare experimented dishes with existing ones under: <br> - appearance <br> - taste <br> - texture <br> - preparation time <br> - cost <br> - presentation etc. <br> Project: <br> Students to build a class recipe booklet with standardized recipes. <br> Assess outcome based on <br> - appearance <br> - texture <br> - taste <br> - cost. <br> - originality <br> - creativity |

## SENIOR HIGH SCHOOL - YEAR 3 - TERM 2

## SECTION 3

## THE FOOD INDUSTRY

General Objectives: The student will:

1. appreciate the need to adapt recipes for large scale cooking.
2. be aware of career opportunities in the food industry.
3. recognize the importance of laws governing the preparation and sale of food.
4. develop skills in costing and pricing of food products.
5. develop appropriate work ethics for the food industry.
6. acquire knowledge and skills in food purchasing.
7. acquire knowledge and skills in entrepreneurship.

| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> CATERING ON A LARGE SCALE | The student will be able to: <br> 3.1.1 adapt recipes for large scale cooking. <br> 3.1.2 outline the factors which affect costing and pricing of food products. | ADAPTATION OF RECIPES: <br> - Multiply ingredients based on the people being catered for. <br> - Increase raising agents and seasonings approprietely. <br> - Substitute certain ingredients to cut down on cost without compromising quality. <br> - Know portion per-head etc. <br> FACTORS AFFECTING THE COSTING AND PRICING OF FOOD PRODUCTS. <br> - The type of catering establishment. <br> - Purchase price of food items used. <br> - Type of packaging. <br> - Labour and time spent <br> - Number of people being catered for <br> - Direct cost (production materials) <br> - Indirect cost (over head and salaries) <br> - Profit margin etc. | Facilitate discussions on the various ways by which existing recipes can be adapted. <br> Students to visit school kitchens or other Institutional kitchens to familiarize themselves with large scale catering. <br> Group discussion of factors that affect costing and pricing of food products. <br> Group students and guide them to plan for the preparation and sale of food products (dishes). | ASSIGNMENT <br> Assign students to adapt selected recipes for large scale cooking and present for class discussion. |



| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 2 <br> FOOD PURCHASING | The student will be able to: <br> 3.2.1 outline guidelines for shopping that leads to wise food purchases. <br> 3.2.2 explain factors that affect the food budget. <br> 3.2.3 explain the need to buy food in bulk. <br> 3.2.4 explain guidelines for bulk purchasing of food. | GUIDELINES FOR SHOPPING FOR FOOD: <br> - Prepare a shopping list and follow accordingly. <br> - Window shop to compare prices. <br> - Consider different shopping outlets. <br> - Use bargaining skills. <br> - Buy foods in season. <br> - Take advantage of sales. <br> - Buy in bulk when storage is available, etc. <br> FOOD BUDGETING: <br> Food budget is dependent on: <br> - Overall income. <br> - Food needs of those being catered for. <br> - Whether foods are in season or not (seasonal foods tend to be cheaper). <br> - Ability to use alternative cheaper sources (must be equally nutritious) e.g. Yam instead of potatoes. <br> - Ability to take advantage of sale items. <br> - Availability of storage space. <br> - Family size and composition <br> - Bargaining skills, etc. <br> REASONS FOR BUYING FOOD IN BULK: <br> - To cut down cost <br> - To reduce the number of trips to the market or shop <br> - To save time and energy. <br> To have food when it is needed, etc. <br> GUIDELINES FOR BULK PURCHASING: <br> - Compare wholesale, retail, and farm gate prices. <br> - Ensure that measuring cups/tins are not adjusted by sellers. <br> - Ensure that there is adequate storage space. <br> - Ensure that there is enough money, etc. | Discuss and develop guidelines for effective shopping. <br> Students to role-play different shopping scenes to depict wise shopping practices. <br> Class discussion of the important considerations for successful food budgeting. <br> NOTE: Emphasize the need to plan meals that fit into the family food budget. <br> Brainstorm with students to bring out the reasons for bulk purchasing of food and discuss in class. <br> Group students to discuss and present in class the guidelines for bulk purchasing of food. | Assignment: <br> Create a poster on helpful tips for buying food that would aid teenage shoppers. <br> 1. Students to find out from their parents how much they spend on food in a month and suggest ways of cutting down the food budget. <br> 2. When food prices go up the average family's food budget is affected: <br> - What can people do to keep food costs down while ensuring that their family members eat nutritious meals?. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 3 <br> CAREER OPPORTUNITIES IN FOODS AND NUTRITION | The student will be able to: <br> 3.3.1 identify and describe careers in Foods and Nutrition. <br> 3.3.2 explain the factors that influence career choices. | CAREERS IN FOODS AND NUTRITION: <br> - Food Demonstrator <br> - Self Employment <br> - Food Service Worker, etc. <br> The following careers need higher or further training: <br> - Teaching <br> - Dietetics <br> - Institutional management <br> - Food Biochemist <br> - Food Scientist <br> - Nutritionist etc. <br> FACTORS THAT INFLUENCE CAREER CHOICES: <br> - Interests <br> - Aptitudes/skills <br> - Abilities/ (your powers to perform) <br> - Lifestyle <br> - Potential income <br> - Working conditions | Brainstorm and discuss the various careers available for Foods and Nutrition with students. <br> Discuss job descriptions of the various employees of the various careers. <br> NOTE: Point out that, for students to find themselves in these careers, they need further or higher training. <br> Students break into groups to look at each of the factors separately. Follow up with a class discussion on the factors that influence career choices. | Assignment: <br> Students to find other careers in foods in their locality, internet and other sources and report in class. |




| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 5 <br> FOOD PACKAGING | The student will be able to: <br> 3.5.1 explain the term Food Packaging. <br> 3.5.2 give reasons why food products should be packaged. <br> 3.5.3 outline the qualities of food packaging materials | FOOD PACKAGING: <br> Putting a product into a container either for storage, advertisement or for sale. <br> REASONS WHY FOOD IS PACKAGED: <br> - To prevent dehydration and oxidation <br> - To prevent contamination <br> - To prevent transfer of flavours <br> - Prevent food from becoming flat eg. biscuits <br> - To make food attractive <br> - As a form of advertisement to attract customers etc. <br> QUALITIES OF A FOOD PACKAGING MATERIAL: <br> - Vapour-proof <br> - Greaseproof <br> - Water proof <br> - Odourless <br> - Strong and durable <br> - Easy to use Easy to dispose off etc. | Students to brainstorm and come up with an explanation for packaging. <br> Assist students to provide reasons for packaging food products. Discuss the reasons with the students. <br> Assist students to discuss the qualities of food packaging materials. | Class Exercise: <br> Students to list four food items that can be stored in the refrigerator and write the type of packaging they would use for each of them with reasons. |


| UNIT | SPECIFIC OBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 5 (CONT'D) <br> FOOD PACKAGING <br> UNIT 6 <br> WORK ETHICS | The student will be able to: <br> 3.5.4 identify food packaging materials. <br> 36.1 explain work ethics. <br> 3.6.2 explain qualities that promote good work ethics. | FOOD PACKAGING MATERIALS: <br> - Sheet wrapping material <br> - aluminium foil <br> - polythene sheeting <br> - freezer paper <br> - Bags <br> - cellophane <br> - paper <br> - polythene <br> - Rigid containers <br> - plastic or polythene boxes <br> - waxed cartons <br> - glass, aluminium or ceramics containers <br> WORK ETHICS: <br> It is the standard of conduct for successful job performance. Ethics show morality or a sense of right and wrong. <br> GOOD WORK ETHICS: <br> - Punctuality to work <br> - Honesty <br> - Ability to set targets and attain them. <br> - Being trustworthy <br> - Being reliable <br> - Being responsible. | Students to list and categorize the food packaging materials they know of. <br> NOTE: Stress the need for labelling in packaging. <br> Emphasize the importance of a neat and attractive finishing to food products. <br> Through questions and answers elicit from students the meaning of work ethics. <br> Brainstorm and discuss qualities which promote good work ethics. <br> Students to role-play to depict some work ethics at a food processing factory. Discuss the role-play with students or process the role-play. <br> Stress the need for maintaining standards in view of health implications. | Investigation: <br> Students to investigate the effect of the various packaging materials on the environment and state how the pollution they cause can be minimized. <br> Assignment: <br> Students to look for more work ethics from internet and other sources and report in class for discussion. |

## SENIOR HIGH SCHOOL - YEAR 3

SECTION 4
EXHIBITION
General Objective: The student will:

1. utilize appropriate strategies to boost the marketing of food products.

| UNIT | SPECIFICOBJECTIVES | CONTENT | TEACHING AND LEARNING ACTIVITIES | EVALUATION |
| :---: | :---: | :---: | :---: | :---: |
| UNIT 1 <br> PLANNING AND MOUNTING EXHIBITIONS | The student will be able to: <br> 4.1.1 explain the term exhibition. <br> 4.1.2 identify the types of exhibition. <br> 4.1.3 plan an exhibition. | EXHIBITION: <br> Exhibition is a public display of products. It brings to the notice of consumers what products are available for sale. <br> TYPES OF EXHIBITION: <br> - General - open to all types of products <br> - Specialized - on specific products. <br> PLANNING A FOOD FAIR/BAZAAR: <br> Consider: <br> - What products to exhibit <br> - Where to exhibit <br> - Cost involved <br> - Publicity <br> - Expected number of guests/visitors duration/time of opening and closing. <br> - Mounting of exhibits <br> - Security <br> - General layout <br> - Visitors book <br> - Labelling of exhibits | Brainstorm with students to explain Exhibition. <br> Follow-up with a discussion on the two main types and the purpose of the exhibition. <br> Discuss with students factors to be considered when planning a general exhibition such as a Food Bazaar/Fair. <br> Let students work in small groups to explain how each factor will affect the planning process. |  |


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| UNIT 1 <br> PLANNING AND MOUNTING EXHIBITIONS CONT'D | The student will be able to: <br> 4.1.4 mount an exhibition. | MOUNTING AN EXHIBITION <br> FACTORS TO CONSIDER: <br> - Colour scheme and balance. <br> - Effective lighting and ventilation <br> - Easy access to view products. <br> - Effective decoration of room. <br> - Background music. <br> - Price tags if products should be sold. | Class to discuss the factors that promote a successful exhibition. <br> Students to discuss in groups how best to mount the exhibits. <br> Assist them to organize a mock food bazaar/fair in their class. <br> Guide students to plan for and mount a school exhibition during the school's speech and prizegiving day. <br> NOTE: Arrange food products with creativity. Students could choose co-ordinators for their activities. | Assess the mock exhibition based on the factors outlined in the content column. <br> Students should comment verbally and in writing about the school exhibition. <br> Let them suggest alternatives to faults they identify. |

## REFERENCES

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