GEORGIA | PEACH STATE PATHWAYS Career, Technical, & Agricultural Education

CULINARY ARTS

PATHWAY:	Culinary Arts
COURSE:	Culinary Arts I (CAI)
UNIT:	7.1 Business and Culinary Math Skills



Annotation:

This Lesson Plan will help students identify different types of weights and measures, apply standard recipe conversions, and understand basic menu costing. Students will convert a standard recipe, prepare the dish, and calculate the menu price of that item.

Grade(s):

Х	9 th
Х	10 th
Х]] th
Х	12 th

Time:

5 90-minute class periods

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Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.

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GPS Focus Standards: Please list the standard and elements covered.

CA-CAI-4: Students will acquire basic knowledge in business and culinary math skills.

GPS Academic Standards:

MC1-P1. Students will solve problems (using appropriate technology). MC4P3. Students will communicate mathematically. MC4P4. Students will make connections among mathematical ideas and to other disciplines. NFCS-8.5.3. Utilize weights and measures to demonstrate proper scaling and measurement techniques.

National / Local Standards / Industry / ISTE:



Enduring Understandings:

Identify and master the use of different types of measuring tools, understand and apply standard recipe conversions and examine basic accounting skills used in the evaluation of menu costing, pricing and cost control.

Essential Questions:

Knowledge from this Unit: Factual information.

Skills from this Unit: Performance.

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Assessment Method Type: Select one or more of the following. Please consider the type(s) of differentiated instruction you will be using in the classroom.

 Pre-test
Objective assessment - multiple-choice, true- false, etc.
Quizzes/Tests
Unit test
 Group project
 Individual project
Self-assessment - May include practice quizzes, games, simulations,
 checklists, etc.
Self-check rubrics
Self-check during writing/planning process
Journal reflections on concepts, personal experiences and impact on one's life Reflect on evaluations of work from teachers, business partners, and
competition judges
Academic prompts
Practice quizzes/tests
 Subjective assessment/Informal observations
Essay tests
Observe students working with partners
Observe students role playing
 Peer-assessment
Peer editing & commentary of products/projects/presentations using rubrics
Dialogue and Discussion
 Student/teacher conferences
Partner and small group discussions
Whole group discussions
partners
 Constructed Responses
Chart good reading/writing/listening/speaking habits
Application of skills to real-life situations/scenarios
 Post-test

Assessment(s) Title:

Assessment(s) Description/Directions:

Review of Lesson: Students will discuss and practice culinary math skills through recipe

conversion and measurements.

Evaluation of Drop Biscuit Measurement and Portions

Attachments for Assessment(s): Please list.



Instructional planning: Include lessons, activities and other learning experiences in this section with a brief description of the activities to ensure student acquisition of the knowledge and skills addressed in the standards. Complete the sequence of instruction for each lesson/task in the unit.

Sequence of Instruction

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

CA-CAI-4: Students will acquire basic knowledge in business and culinary math skills.

2. Review Essential Questions.

3. Identify and review the unit vocabulary.

4. Assessment Activity.

Students should have access to a kitchen lab and be given the following information:

- PowerPoint Presentation
- Equipment Handout
- Recipe for Salsa
- Price of Salsa Ingredients
- Ingredient Yield

Learning Activities:

Students will identify standard measurement equipment and measure both liquid and dry ingredients. Students will demonstrate the difference in measuring weight versus volume, and the use of spring versus balance scales.

- 1. The Instructor will show a PowerPoint presentation showing pictures of standard measuring equipment. Using their handout, students will then list the names of the equipment being shown on the presentation, to include:
- Measurement Pitchers
- Measurement Cups
- Measurement Spoons
- Ladles
- Portion Scoops
- Spring Scale

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- Balance Scale
- 2. The Instructor will demonstrate the correct tool and the correct method used to measuring the following:
- Cups
- Spoons
- Ounces
- Pounds
- Portions
- 3. The students will measure out the dry and liquid ingredients for Salsa and then make that product. The following should be observed:
 - Proper Measurement Procedure
 - Proper Scaling Procedure
 - Proper Portioning

4. The students will be given a list of product prices and figure the actual cost of the Salsa as well as observing product yield and cost control.

Closure:

1. Summarize the rationale behind the use of correct measurement tools by evaluating the Salsa recipe, the product yield, cost of making the Salsa and the finished product.

Transfer Out: Review any outstanding questions about why specific measurement tools are used for the measurement of dry and liquid ingredient, how the yield of a product influences the cost to make the product versus the menu price.

Attachments for Learning Experiences: Please list.

Notes & Reflections: May include notes to the teacher, pre-requisite knowledge & skills, suggestions, etc.

CULMINATING PERFORMANCE TASK

(Optional)

Culminating Unit Performance Task Title:

Culminating Unit Performance Task Description/Directions/Differentiated Instruction:

Attachments for Culminating Performance Task: Please list.



Web Resources:

Attachment(s): Supplemental files not listed in assessment, learning experiences, and performance task.

Materials & Equipment:

- Projector with PowerPoint display
- Hand outs
- Measurement Equipment (including balance and spring scale)
- Recipe

What 21st Century Technology was used in this unit:

