

NTEQ LESSON PLAN

LESSON TITLE: THAT'S A LOT OF HOT DOGS!

SUBJECT AREA(S): MATH, HEALTH

GRADE LEVEL: 7, 8, 9

LESSON SUMMARY

Students use the Internet to research information about the recent hot dog eating contest and other extreme eating contests. Using a spreadsheet, students determine statistics for the contests. Students use PowerPoint to make a report of their information. Each group prints out one slide to be compiled into a book.

LEARNING OBJECTIVES

By the end of this lesson, the students will:

- Research for information on the Internet.
 - Calculate the number of calories consumed in certain foods.
 - Use spreadsheet to calculate statistics.
 - Make a visual report of their findings.
 - Present their findings to the class.
 - Work together effectively as a group.
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STANDARDS

LOCAL:

- 2.1.8.D Apply ratio and proportion to mathematical problem situations involving distance, rate, time and similar triangles.
 - 2.2.11.A Develop and use computation concepts, operations and procedures with real numbers in problem-solving situations.
 - 2.2.11.F Demonstrate skills for using computer spreadsheets and scientific and graphing calculators.
 - 2.3.8.A Develop formulas and procedures for determining measurements.
 - 2.3.8.B Solve rate problems.
 - 2.3.8.D Demonstrate, use and describe measures of distance, rate, perimeter, area, volume, weight, mass and angles.
 - 2.6.8.F Use scientific and graphing calculators and computer spreadsheets to organize and analyze data.
 - 10.1.9/12.C Analyze factors that impact nutritional choices of adolescents/adults.
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MATERIALS

- Newspaper article
 - Computers with Internet access and spreadsheet and presentation software
 - Define and assign sheet
 - Teacher PowerPoint example
 - Think Sheet
 - Internet search form with website search suggestions
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COMPUTER FUNCTIONS AND DATA MANIPULATION

<i>Computer Function</i>	<i>Computer Application</i>	<i>Data Manipulation</i>
• Research	• Internet	• Web browsing
• Organize data	• Spreadsheet	• Organize data
• Calculate	• Spreadsheet	• Use formulas to manipulate data
• Presentation	• PowerPoint	• Create a presentation

SPECIFY PROBLEM

Did anyone happen to see the hotdog-eating contest in the news recently? A twenty-five year old man from Japan won by eating the most hotdogs in twelve minutes. Does anyone care to guess how many hotdogs he ate? 53 ½! Do you think other eating records exist? How might we find out about them?

I want to give a presentation to the sixth graders about “extreme eating” and if it is healthy. How might I go about putting that together?

RESULTS PRESENTATION

Students will create PowerPoint presentation detailing some of the information and statistics that they discover.

MULTIDIMENSIONAL ACTIVITIES

LESSON INTRODUCTION

- Class KWL Chart
- Discussion – how might you find the information you need?
- Create rubric
- Hand out materials, define computer rotation, break into groups

COMPUTER ACTIVITIES

Activity One

Prior to going to the computer:

1. Define and assign sheets
2. Think Sheet I
3. Determine information to be searched

At the computer:

1. Search internet for information
2. Create spreadsheet

After going to the computer:

1. Analyze spreadsheet

Activity Two

Prior to going to the computer:

1. Prepare storyboard for presentation

At the computer:

1. Create presentation

After going to the computer:

1. Proofread presentation
2. Practice presentation

SUPPORTING ACTIVITIES

Activity One

1. Invite guest speaker to discuss health, eating and calories

CULMINATING ACTIVITY

Each group makes presentation and submits a summary slide to be compiled into a class book.

ROTATION PLAN

Groups rotate in fifteen minute intervals at the computer.

ASSESSMENT

Create a task list with student input.