

## NUTRITION SURVEY

### Performance Standard 10B.I

Create a critical question, and design an instrument to gather the needed data:

- *Mathematical knowledge*: create and conduct a survey and analyze data to draw conclusions.
- *Strategic knowledge*: follow systematic process to develop clear, unbiased survey and conclusions.
- *Explanation*: explain completely what was done and why it was done.

### Procedures

1. ***In order to formulate questions, design data collection methods, gather and analyze data and communicate findings (10B)***, provide students with sufficient learning opportunities to develop the following:
  - Decide if a survey was “successful” in gathering the intended data and justify the decision. Students employed in some Family and Consumer Sciences related occupations will be required to periodically survey customers to determine best business practices to remain current and profitable. The ability to formulate questions, design data collection methods, gather data, analyze results and communicate the findings is critical. This assessment aligns with the Family and Consumer Science Education National Standard 14.1 (Analyze factors that influence nutrition and wellness practices across the life span.)
2. Students are given the task to be completed both inside and outside of class and results brought back for analysis and presentation. It is assumed that students have learned and discussed methods of sampling and how the phrasing of questions can influence results.

After studying a unit in nutrition, you want to find out about the eating habits of the students in your school. Create a critical question related to nutritional eating, and design a set of questions that might get the desired data. Carry out the survey, and decide if it was “successful” in gathering the intended data. Write a summary of the results with possible reasons for good or inadequate results for each question and suggestions for improving questions that did not yield good data.
3. Evaluate the work using the mathematics rubric:
  - A 4 in mathematics knowledge would require the completion of the survey, accurate and appropriate summary of results and conclusions/predictions based on the data.
  - A 4 in strategy would require a clear, critical question and a set of unbiased questions that support the gathering of data relative to the critical question. A 3 may be awarded for strategy if the questions did not elicit the data desired, but the student can describe how the questions should be changed to improve the quality of the data.
  - A 4 in explanation would require a detailed written summary of the results and analysis of the success of each question with suggestions for improvement of questions.

### Examples of Student Work

- [Meets](#)
- [Exceeds](#)

### Time Requirements

- One or more class periods devoted to developing the questions
- Two or three days to collect the data
- One week to analyze and present results and conclusions

### Resources

- Copies of the “Nutrition Survey” task sheet
- Access to a population to sample
- Mathematics Rubric

NAME \_\_\_\_\_ DATE \_\_\_\_\_

## **NUTRITION SURVEY**

### Student Task Sheet

After studying a unit in nutrition, you want to find out about the eating habits of the students in your school.

Create a critical question related to nutritional eating, and design a set of questions that might get the desired data.

Carry out the survey, and decide if it was “successful” in gathering the intended data. Write a summary of the results with possible reasons for good or inadequate results for each question and suggestions for improving questions that did not yield good data.

## MATHEMATICS RUBRIC

NAME \_\_\_\_\_ DATE \_\_\_\_\_

- Exceeds standard (must receive a 4 in each area)
- Meets standard (must receive all 3's or a combination of 3's and 4's)
- Approaches standard (must receive all 2's or any combination which may include a 3 or a 4)
- Begins standard (has no 3's or 4's but not all 1's)
- Absent (has all 1's and 0's)

	<b>Mathematical Knowledge</b>	<b>Strategic Knowledge</b>	<b>Explanation</b>
<b>4</b>	<ul style="list-style-type: none"> <li>• Wrote the right answer.</li> <li>• Used math words correctly to show understanding of how math works.</li> <li>• Worked it out with no mistakes.</li> <li>• Used the right math words and labeled the answers.</li> </ul>	<ul style="list-style-type: none"> <li>• Identified all the important parts of the problem, and knew how they went together.</li> <li>• Showed all the steps used to solve the problem.</li> </ul>	<ul style="list-style-type: none"> <li>• Wrote what was done and why it was done.</li> <li>• If a drawing was used, all of it was explained in writing.</li> </ul>
<b>3</b>	<ul style="list-style-type: none"> <li>• Knew how to do the problem, but made small mistakes.</li> </ul>	<ul style="list-style-type: none"> <li>• Identified most of the important parts of the problem.</li> <li>• Showed most of the steps used to solve the problem.</li> </ul>	<ul style="list-style-type: none"> <li>• Wrote mostly about what was done.</li> <li>• Wrote a little about why it was done.</li> <li>• If a drawing was used most of it was explained in writing.</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li>• Understood a little, but made a lot of big mistakes.</li> </ul>	<ul style="list-style-type: none"> <li>• Identified some of the important parts of the problem.</li> <li>• Showed some of the steps used to solve the problem.</li> </ul>	<ul style="list-style-type: none"> <li>• Wrote some about what was done or why it was done but not both.</li> <li>• If a drawing was used, some of it was explained in writing.</li> </ul>
<b>1</b>	<ul style="list-style-type: none"> <li>• Tried to do the problem, but didn't understand it.</li> </ul>	<ul style="list-style-type: none"> <li>• Identified almost no important parts of the problem.</li> <li>• Showed almost none of the steps used to solve the problem.</li> </ul>	<ul style="list-style-type: none"> <li>• Wrote or drew something that didn't go with the answer.</li> <li>• Wrote an answer that was not clear.</li> </ul>
<b>0</b>	<ul style="list-style-type: none"> <li>• No answer attempted.</li> </ul>	<ul style="list-style-type: none"> <li>• No strategy shown.</li> </ul>	<ul style="list-style-type: none"> <li>• No written explanation.</li> </ul>
<b>Score</b>			