### Context

### Experiential

students were asked to design a promotional brochure for the high schoolÕs Career Exploration Internship Program (CEIP). The brochure was to be used to promote the internship program to parents, community organizations, businesses, and students.

Eleventh- and twelfth-grade

business and marketing education

Student Work Sample

## Performance Indicators Students:

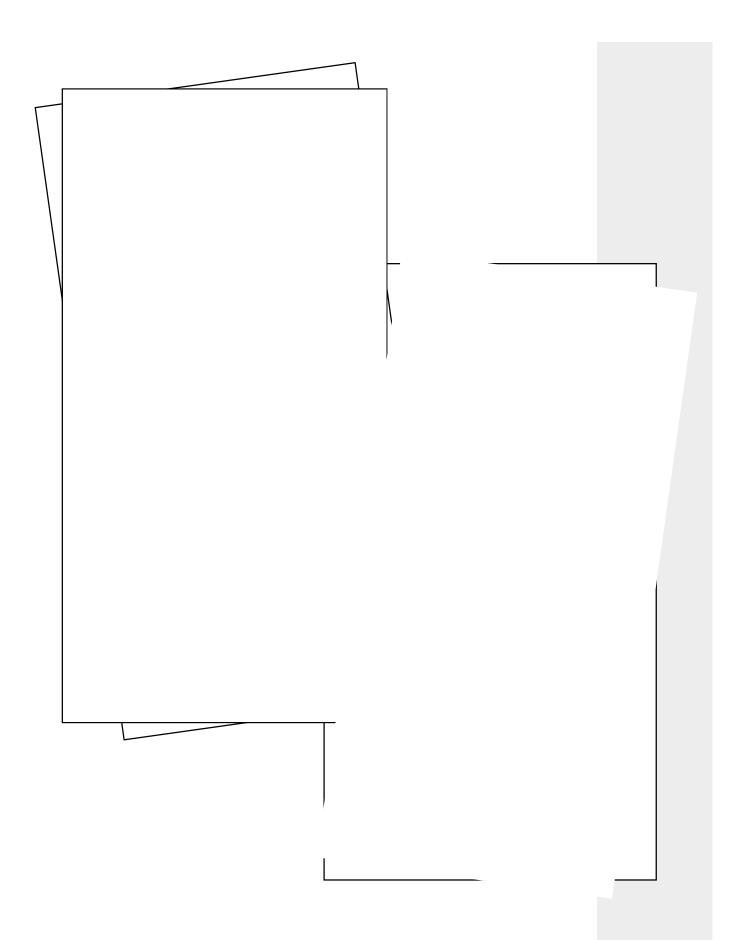
- . . .prepare, maintain, interpret/analyze, and transmit/distribute information in a variety of formats while demonstrating the oral, nonverbal, and written communication skills essential for working in todayÕs international service-/information-/technological-based economy
- . . .exhibit interpersonal skills essential for success in the multinational business world, demonstrate basic leadership abilities/skills, and function effectively as members of a work group or team
  - ...identify, organize, plan, and allocate resources (e.g., financial, materials/facilities, human, time) in demonstrating the ability to manage their lives as learners, contributing family members, globally competitive workers, and self-sufficient individuals.

## Commentary The Sample:

- ¥ shows the integration of studentsÕ computer, marketing, and communication skills
  - ¥ illustrates the studentsÕ abilities in composing/producing a professional-quality promotional brochure
  - ¥ demonstrates the studentsÕ leadership skills and their abilities in functioning as members of a work team
    - ¥ highlights the studentsÕ abilities in planning and implementing a real-life business project according to a student-developed timeline and school-imposed financial budget
      - ¥ shows the studentsÕ abilities to conduct appropriate research

¥indicates the studentsÕ abilities in working with resource copy editors and printing professionals.





## Standard 3bNCareer Majors: Health Services

### Context

### Core

This assignment was given to seniors enrolled in an integrated health careers exploration program. After reviewing codes of ethics from various sources, the students were asked to work in cooperative learning groups to develop a code of ethics for their class.

### Performance Indicators Students:

...know the importance of performing their role in the health care system in accordance with laws, regulations, policies, ethics, and the rights of clients.

### Student Work Sample

### NEW VISION CLASS CODE OF ETHICS

The New Vision students agreed to maintain the following standards:

- 1. To maintain professional standards expected of a New Vision student. 2. To learn and implement properly the theory taught to the New Vision class.
- 3. To know, understand and stay within the New Vision guidelines. 4. To be courteous and empathetic to peers, staff, patients and visitors.
- 5. To maintain confidentiality and privacy regarding patients.

- 7. To be dependable to report to New Vision assignments on time. 6. Not to accept gifts from patients.
- 8. To work cooperatively with peers, instructors and staff 9. To maintain the New Vision Dress Code when at the VA Medical Center.
- 10. To maintain oneÕs physical, mental and social health.
- 11. To properly care for all equipment and supplies. 12. To report any incident that involves me to my supervisor immediately.

# Standard 3bNCareer Majors: Health Services

### Context

### Core

This assignment was given to a high school student enrolled in a health exploration program. The student was asked to write an essay describing the importance of understanding science concepts in the health care environment.

### Performance Indicators Students:

. . .apply knowledge/skills acquired in academic subjects to the health care environment.

### Student Work Sample

USING SCIENCE CONCEPTS IN HEALTH CAREERS To achieve a degree in a health-related field one must have knowledge of and expe-

rience in science. Whether it be biology, chemistry, physics or anatomy and physiology, science is a crucial part of the variety of health careers.

Biology is the study of life; the environment and the organisms within it. Understanding biology is important for understanding the basic principles of health. For instance, the microbiologist studies cells and their disorders. By understanding the building blocks of the human body, microbiologists can understand its malfunctions and obtain methods to correct them. The laboratory technician uses biology to help diagnose disease by means of identifying the pathogenic microorganisms from

Another important science field for most health professionals to understand and utilize is chemistry. The aspect of chemistry known as organic chemistry deals with the the environment that cause disease. make-up of natural compounds. It is important for the dietitians to know and understand these compounds so they are able to prescribe the best food and supplements for their patients O specific needs. Pharmacists particularly need to understand chemistry thoroughly. Since the body 0 s functions are controlled by a series of chemical reactions chemistry is used by the pharmacists to help correct imbalances in the body. By using drugs to alter the body Os chemistry the pharmacists are able to correct and

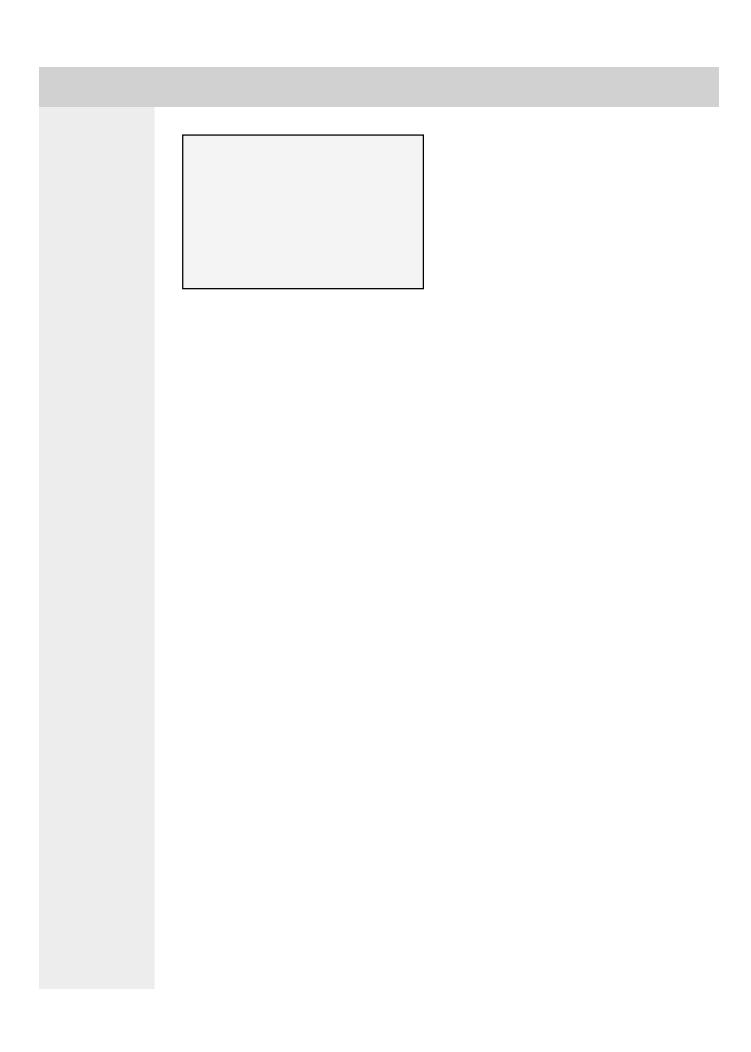
Physics is also important when dealing with health. Physics is the study of the world around us. Physics deals with the study of waves, electricity, and energy. control the body functions. aspects of science are especially important to the Cardiologists and electrocardiogram technicians. The heartbeat is a series of electrical impulses. It is important for medical personnel to understand electricity so they can comprehend how the heart works and how to diagnose its disorders. EKG technicians study these impulses by studying the waves that these impulses make on the electrocardiogram. Nurses apply the the ory of physics as they move patients. They need to know the methods that work with gravity so they do not hurt themselves or their patients.

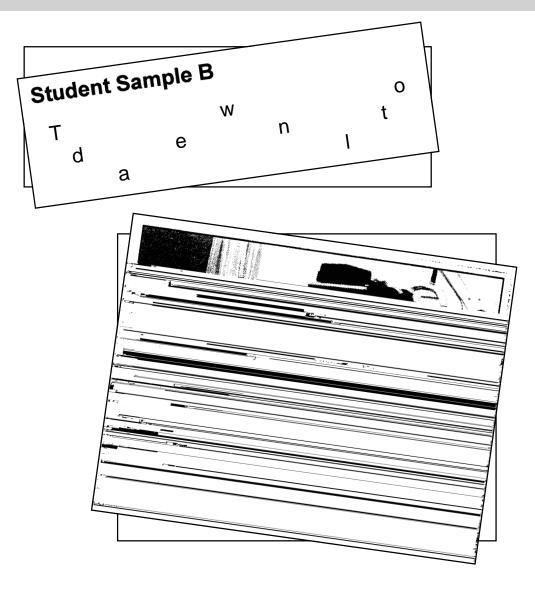
Perhaps the most important aspect of science in the health field is anatomy and physiology. This science deals with the structures of the human body and how these structures work together to maintain body homeostasis. Since all health professions deal with keeping the human body healthy, it is crucial to understand body structure and function. Some professions particularly dealing with A&P are orthopedic doctors, muscle specialists, general physicians, pharmacists and nurses.

The study of sciences is an important part of all healthrelated fields. Biology, chemistry, physics, and anatomy and physiology are important to study and comprehend as they play a crucial role in understanding the human body and keeping it healthy.

## Commentary The Sample:

¥shows the student understands that knowledge acquired in science classes is important for the world of work the student





## Commentary The Sample:

¥illustrates that students can design and organize a presentation to instruct preschool and elementary students about preventive health practices such as proper dental care

¥indicates that students can synthesize and adapt material to suit the audience

¥shows that students can inform others of the importance of a dentist and dental assistant in the health care system.

### Standard 3bNCareer Majors: Engineering/T echnologies

### Context

### Experiential

Aviation students had to develop flight plans, research the weather via the Internet from Purdue University and the Duat Weather Service. The students performed weight and balance calculations and plotted weather maps, using paper and pencil. They performed manual navigation methods and basic flight planning procedures, using a navigation plotter and circular slide rule known as an E-GB.

Performance Indicators Students:

- . . .develop practical understanding of engineering technology through reading, writing, sample problem solving, and employment experiences
- . . .demonstrate how all types of engineering/technical organizations, equipment (hardware/software), and well-trained human resources assist and expedite the production/distribution of goods and services
- . . .demonstrate knowledge of planning, product development and utilization, and evaluation that meets the needs of industry.

Student Work Sample

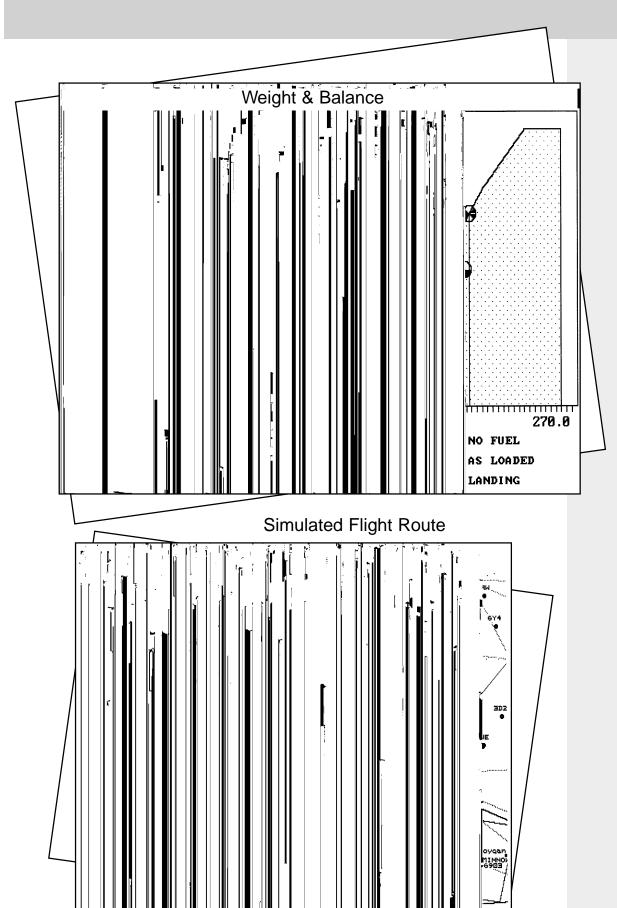
> FliteStar (V3.70) Flightplan 04/02/96 S. Mroz Name: ATE/FUEL Rem. Rem. Rem. Temp GS Alt-End MΗ 51.9 LON: W091 29.1 00:02 \*\* CLIMB \*\* 10.2 KEAU: LAT: N44 273 MSA: 3600 907 Commentary The Sample:

> > ¥demonstrates that students can perform weight and balance calculations relating to aircraft flight performance

¥illustrates that students can develop a flight plan

¥shows that students can interact with the technological equipment necessary to plot a flight plan.

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## Standard 3bNCareer Majors: Engineering/T echnologies

### Conte

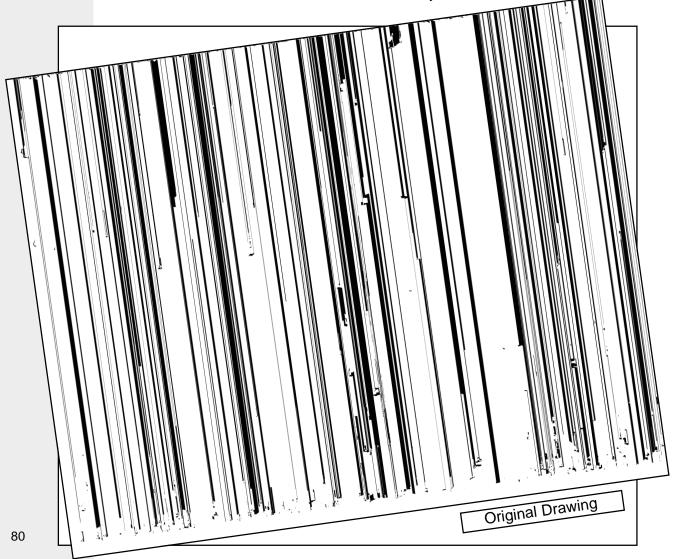
Experiential

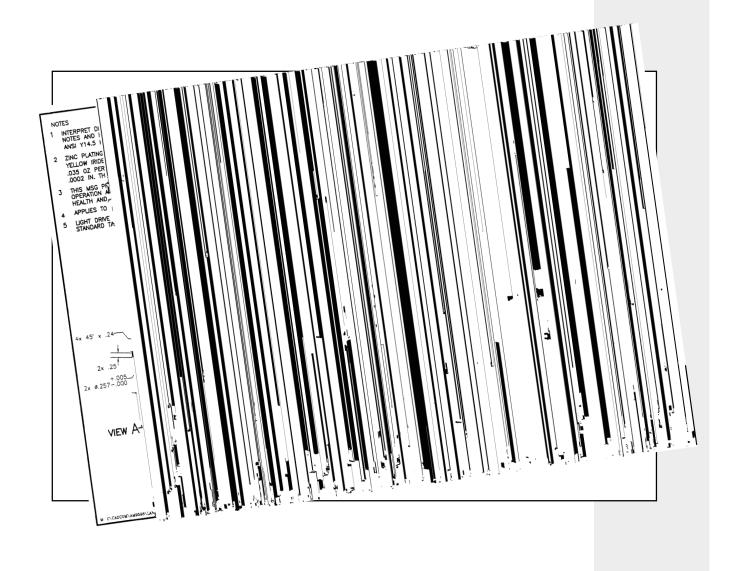
Student Work Sample Context Perfo

An eleventh-grade student was presented with the following situation: a business had an original, not-to-scale drawing of a hinged bracket assembly. The business also had the actual hinged bracket assembly. The business requested an accurately scaled CAD drawing of the hinged bracket assembly on a ÒBÓ sized ANSI border, 11Ó x 17Ó, with associated line weighing and appropriate CAD layering principles applied.

Performance Indicators Students:

- . . .develop practical understanding of engineering technology through reading, writing, sample problem solving, and employment experiences
- . . .demonstrate how all types of engineering/technical organizations, equipment (hardware/software), and well-trained human resources assist and expedite the production/distribution of goods and services
- . . .demonstrate knowledge of planning, product development and utilization, and evaluation that meets the needs of industry.

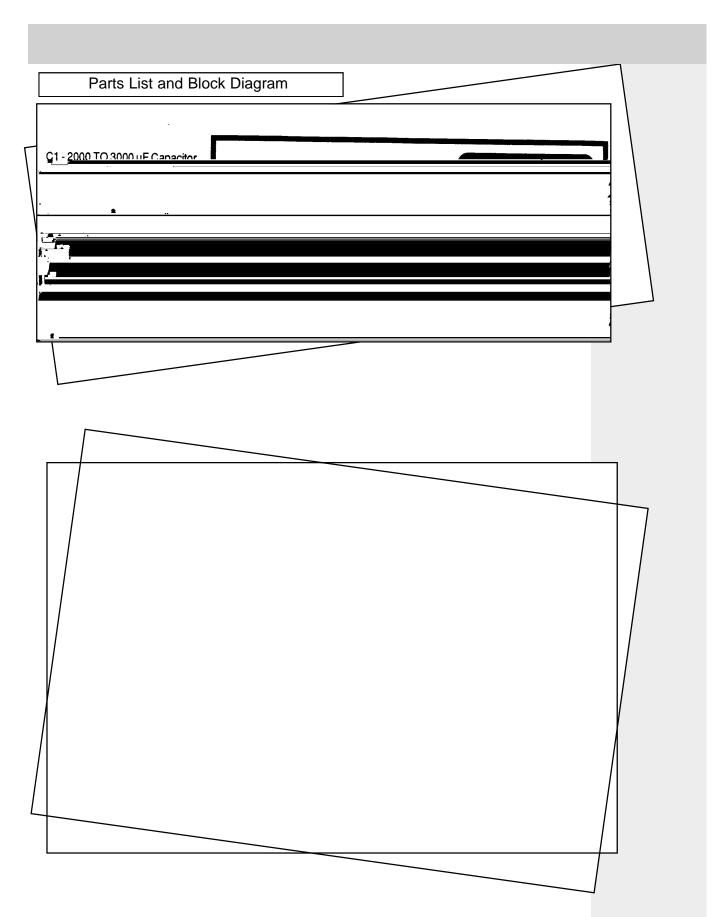


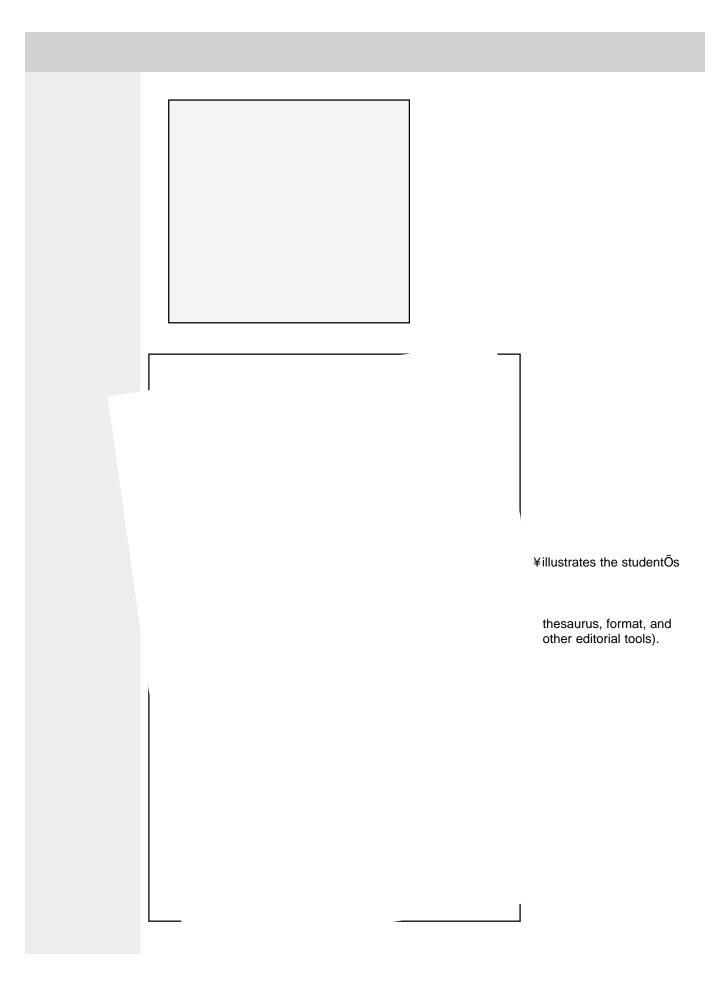


### Standard 3bNCareer Majors: Engineering/T echnologies

### Context Performance Indicators Students: Experiential This eleventh-twelfth-grade ...develop practical understanding of activity reflects a technical engineering technology through reading, engineering problem posed to an writing, sample problem solving, and electronics class. The engineering employment experiences challenge is designed to have students work as a team to develop ...demonstrate knowledge of planning, a working circuit from engineering product development and utilization, and specifications. The students will evaluation that meets the needs of assemble a regulated AC-to-DC industry. Student power supply from a parts list, using a block diagram. Work Sample Commentary The Sample: ¥demonstrates that students are able to use materials, tools, instruments, and equipment, and follow safety procedures ¥shows the studentsÕ abilities to research and design a working circuit as members of a team 82 ¥shows that students arrived at an appropriate conclusion by building a

working model.





## Student Commentary on Successful Job Application and Fmployment

In early December I had an open interview at Media Play. There were several positions open for Christmas help. I decided to take my resume which we had worked on in our Independent Living class.

During the interview , Mike, one of the managers, had asked me to tell him a little about myself. I immediately took out my resume, the little about myself. I found it very easy handed it to Mike and began to talk about myself. I found it very easy to talk about my accomplishments and past experience because of my to talk about my accomplishments and past experience of my to talk about my accomplishments and past experience and I felt resume. Mike was very impressed with the organization of my resume. He asked me questions pertaining to my experience and I felt resume. He asked me questions pertaining him.

My resume made me feel relaxed about talking about myself. It was a guideline that I could follow and fall back on if I ran out of things to a guideline that I could follow and fall back on if I ran out of things to say. There was always somesay, but I never did run out of things to say. There was always something to expand on or something Mike wanted to know more about.

Resumes are great tension releases, everything you need or want to talk about is already pre-thought and well organized. Resumes show that you are confident and well-prepared. Because of my resume I received the job. I would encourage anyone who has a job interview to make up a well prepared resume. It doesnot take very long and it make up a well prepared resume foot in the door and begin a great could get you the chance to get your foot in the door and begin a grould get you the chance to get your self-esteem, makes you realize all could get your resume boosts your self-esteem, makes you realize all job. Also, your resume boosts you an opportunity to talk about your of your achievements and gives you an opportunity to talk about your self and overall you feel 100% better regardless if you get the job or not, you feel better knowing all you have done.

## Standard 3bNCareer Majors: Human and Public Services

### Context

### Specialized

In this project, students in a human services course invited eighth-grade students to participate in a Oshadowing dayO to learn what a normal day in high school was like.

### Performance Indicators Students:

- . . .demonstrate how to interact effectively and sensitively with others
- . . . apply personal and resource management skills.

### Student Work Sample

Family & Consumer Sciences Department Careers in Human Services Eighth Grade Shadowing Day - 1995

Please respond to the following questions regarding eighth grade shadowing day. Please be specific and complete.

1. What did you expect the high school to be like before you came to

1. What did you day?		\ 50
1. What did you will	a Fill in	the chart below: er
I wasnÕt sure.	our shadowing day? Firm	Class Visited ¥
2. How did you spend you	our shadowing day? F <u>ill in</u> Escort	Typing
Period	Lori	Comp. Room
1	Lori	CHS-reception
2	Entire class	S-H (tour)
3	Rose	Govem.
4	Rose	French
5	Rose	Creative Express.
6 (Lunch)	Rose	
7		Child Phys.
	Lori Lori	ell why it was your favorite.

What was your favorite class of the day? T ell why it was your favorite. My favorite class was Creative Expressions because I got to

participate.

What was your least favorite time of the day? Why? My least favorite was Computer Room, she normally had English, but it was free period. And there was nothing I could do.

### Commentary The Sample:

- ¥ demonstrates how the student worked to contribute to a positive high school environment
  - ¥ shows the studentsÕ consideration for the needs of eighth graders in formulating the project
    - ¥ indicates that responses will be used to set goals for future transition projects.

3. Do you think the shadowing day was a valuable way for you to become more familiar with the high school? Explain. Yes, I feel more comfortable with the halls, and I know

more.

4. How do you think the high school students felt about having

They seemed surprised, but they were neat. you visit? Explain.

How did you feel while you were here? Explain .

5. If we were to plan a shadowing day for future eighth graders, I felt comfortable. what could we do to make it better? If you have specific ideas, we would appreciate them.

What other types of opportunities could the high school offer to I think that it was fine. make it easier for you to come here next year? Have more shadowing days.

- 6. What are your impressions of the high school now that you have spent an entire day here?
- 7. Do you have more questions about high school life? Please ItÕs not as big. write them in the space below. Students in Careers in Human Services will respond to each question you have, and send the answers to you in your homeroom.

THANK YOU FOR PQIh9CIPqTING IN EIGHTH GRADE SHADOWING DAY! WEOLL SEE YOU IN THE FOLL.

## Standard 3bNCareer Majors: Human and Public Services

### Context

### Experiential

### Student Work Sample

Students in an eleventh-twelfthgrade independent living class were asked to plan a hands-on activity which involves working with growing children to produce a collaborative project. This activity, called OStone Soup, O gives high school students the opportunity to communicate with and nurture young children.

### Performance Indicators Students:

- . . .demonstrate effective communication skills needed to meet the expectations of human and public services consumers
- ...understand the process of human growth and development and its influence on client needs
- . . .demonstrate how to interact effectively and sensitively with others
- . . . solve problems, set goals, and make decisions in order to provide services to best meet the needs of others.

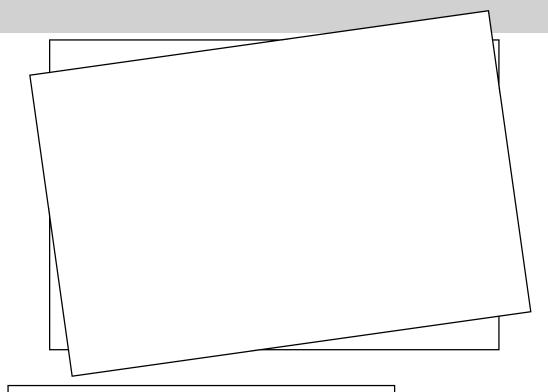
I learned that teaching is not only helping students learn, but also dealing with their everyday problems. Teaching is a very strenuous job. It is interesting, fun and exciting, yet it is also very frustrating and stressful. A teacher must have motivation to help a child and a lot of dedication to his/her job.

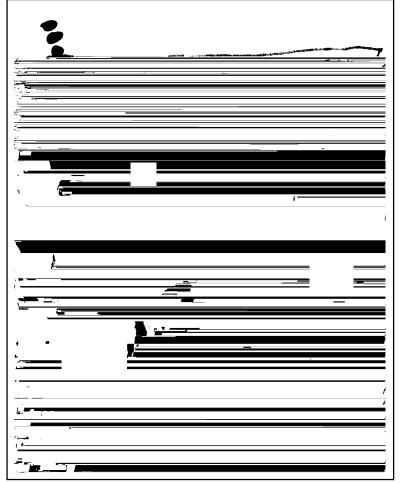
I enjoyed working with the students one on one. I especially enjoyed working with one little boy. Although he was slow in doing his work, knowing that I could help him made me and him feel good. I think the one thing I learned about myself is how attached you become to these students. I feel like they are my own kids and knowing that you can help them is the best feeling in the world.

(work done by an eleventh-grade student)

### Commentary The Sample:

- ¥demonstrates the studentÕs ability to identify strengths and areas for further development in relation to human service career readiness
- ¥demonstrates effective communication skills
- ¥shows that the student helped the younger children exhibit positive behaviors
- ¥illustrates that the student can apply the concept of nurturing to human and public services occupations through volunteer work in a child-related facility
- ¥indicates that contributing to a positive environment enables all groups to be productive and fulfilled.

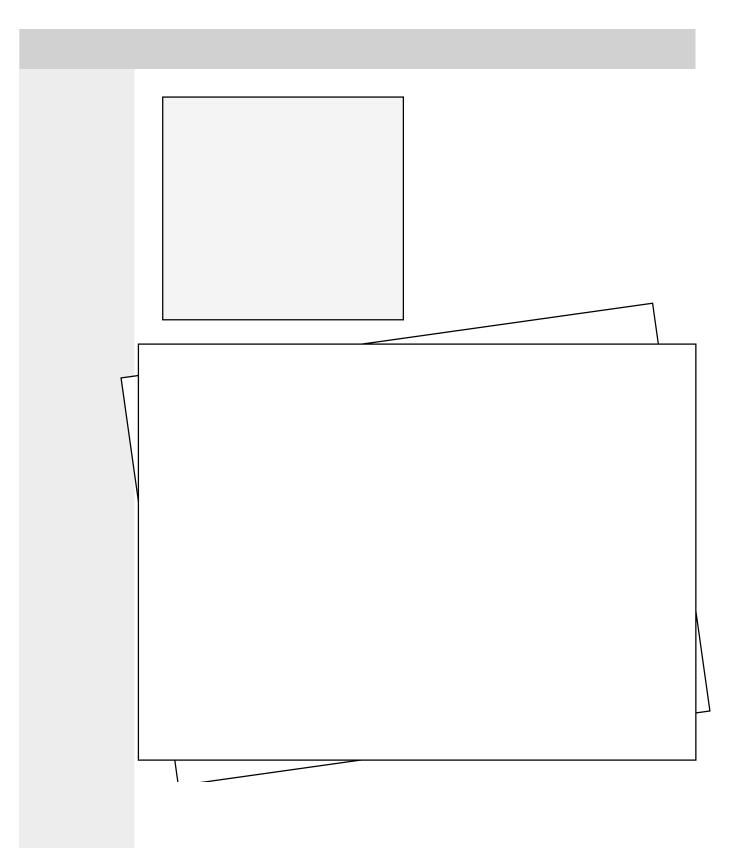




## Dear Teacher,

Thank you for letting us do this project with you and your home economics class. We really enjoyed it. I hope you liked it. At first the soup didnÕt look good. But that was before we cooked it! After we cooked it it looked, smelled and tasted good. Everybody that ate some liked it! I ate three bowls. Tomorrow I am going to have some more. That soup is so good. I could eat a whole pot of it if I had room for it. Did you try any? IÕm so glad that I got your recipe. Now I can make it home whenever I want to. I liked everything in the soup except the green beans. But the rest was great!

(work done by an elementary student)



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## Standard 3bNCareer Majors: Natural and

### Specialized

### Context

This ninth-grade report was prepared in response to a new high school FFA program called OAdopt-A-Classroom. O The purpose of the program is to teach elementary students about various woorm iss ot,s: Naturarious

### Performance Indicators Students:

. . .demonstrate a solid base of knowledge and skills in natural and agricultural sciences

Before we begin, I would like to give you two vocabulary words that will make the earthworms can be a beneficial part of our lives. understanding of my presentation easier. They are ÖvermicompostingÓ and Öworm castings. Ó Vermicompost is a more general term than worm castings. A casting is the material deposited after itÕs moved through the wormÕs digestive tract. Vermicompost also contains worm castings, but also consists of partially decomposed bedding and organic waste.

Let@ now begin with the two different species of earthworms. They are the redworm and nightcrawler . Redworms are the best to use in a home vermicomposting worm and myniciawier. Neuworms are the best to use in a nome vermicomposing system for a number of reasons. They produce large amounts of organic material in their natural habitats of manure, compost piles, and decaying leaves. They also reproduce well in small, confined areas. Some common names you may have heard reproduce well in Small, comme areas. Some common names you may have head of for the redworm are Omanure worm, O Ored wiggler, O or Ored hybrid. O The scientific name for the redworm is Eisenia foetida. The other worm is called the nightcrawler. It is quite different from the redworm. The scientific name for it is Lumbricus terrestris. You may have heard it referred to as the rainworm or dewworm. This species is by far the most studied of the 3000 species found on our planet. The nightcrawlers are not said to be a very good worm for a home vermicomposting sys-

now and they are actually doing better than my redworms. When you see glops of riow and mey are actually doing better than they redworms. When you see glops of coiled dirt on the ground, these are the castings and where the entrance is to their burrow. Nightcrawlers aid greatly in soil fertility, aeration, and water retention. To me, the life cycle of the earthworm is very interesting. Worms are hermaphro-

form a swollen region near their heads. They soon shed this and each region tapers off to be about 1/80 inch long. These are called cocoons. From each cocoon, two or three baby worms hatch and look like white wriggling threads. Over the next two months, the young worms will eat and grow, and then in about two months, they will reach sexual maturity where they can breed and repeat the cycle.

a while, all the bedding will be turned to worm castings. Some of the best types of bedthe breaking down of food wastes. dings for redworms are shredded paper, manure, leaf mole and peat moss. I use a 10/50 blend of machine-shredded paper and peat moss. For redworms, it is not good to use soil or dirt because redworms are naturally found in decaying vegetation such as

Next, we will discuss the types of food redworms will eat. They absolutely love vegetable wastes such as apples, coffee grounds, corn meal, breads, cucumbers, and many rotting logs, manures, and fallen leaves. more. You may have noticed there is no meat on my list. Rotting meat can produce foul-smelling odors. Mice and rats may also go after the meat, and even eat your worms! Worms will eat meat, but it takes them quite a while.

Never use non-biodegradable structures such as plastics, aluminum foil, and glass because they can be harmful both to you and to your worms. When burying food, you can bury it many different ways. I dig trenches across the width and down the length worms will find it. Be careful not to add too much food or the worms and microorgan-

## Standard 3bNCareer Majors: Natural and

### Context

### Experiential

A student in an agriculture education class conducted an experiment to determine if passing air through a high-voltage current will increase nitrate levels in the soil. The high-voltage current was created by using graphite electrodes to simulate lightning and a fan and sprinkler system to simulate wind and rain.

## Performance Indicators Students:

- . . .demonstrate a solid base of knowledge and skills in natural and agricultural sciences
- . . .demonstrate the ability to use technology to assist in production and distribution of food goods and services of todayÕs agricultural industries
- . . .prepare, maintain, interpret, and disseminate quantitative and qualitative pieces of information relating to the natural and agricultural sciences.

### Student Work Sample

ApplicantOs Story: Indicate pertinent information relative to your agriscience project. Summarize how you selected your project, your agriscience project. Summarize how you selected your personal management decisions, accomplishments, failures, your personal management decisions, accomplishments and your personal management decisions, accomplishments, failures, your personal management decisions, accomplishments, failures, your current status and future goals.

Upon reading an article in our local newspaper in which David Mengel, Purdue University professor of agronomy, claimed that lightning triggers plant growth through converting nitrogen into lightning triggers plant growth through converting nitrogen into ammonia, I began to wonder about other positive effects that lightning might have on the soil and plant growth. After much research ning might have on the soil and plant growth. After much research ning might have on the soil and plant growth that the chemical reaction on the subject, I came to the conclusion that the chemical reaction on the subject, I came to the atmosphere could possibly be replited that lightning produces in the atmosphere could possibly be reacted in a controlled environment, and thus raise the nitrate level in the soil which would also stimulate plant growth under proper in the soil which would also stimulate plant growth designs for the growing conditions.

After researching the subject, I began formulating designs for the miniature greenhouses. I determined that I would test the nitrate level and pH of the soil, runoff water, and incoming water. I decidevel and pH of the soil, runoff water, and incoming water. I decidevel and pH of the soil, runoff water, and incoming water. I decidevel a to run my tests weekly and monitor the plants each day. I developed a chart to record my data on. I chose a fast growing corn developed a chart to record my data on. I chose a fast growing corn developed a chart to record my data on. I chose a fast growing the electrodes for my experiment and determined the frequency of the electrodes and precipitation.

The data that I recorded showed the experiment plants that were exposed to electrified air, had consistently higher nitrate levels in the soil and water, which supported my hypothesis. Although the nitrate levels were higher in the experiment, the control plants had a healthier appearance. This may have been due to a lower temperature in the experiment as a result of venting the experiment as a result of venting the experiment outside the greenhouse and the control into the greenhouse, to prevent the airflows from mixing and being pulled back into the to prevent the airflows from mixing and being pulled by the sprincontrol. The frequency of the precipitation provided by the scontrol. The frequency of the precipitation provided by the sprinklers had to be adjusted because the plants were becoming oversativated. Initially the sprinklers were turned on with the electrodes in order to bring the electrified air into the soil.

## Commentary The Sample:

- ¥demonstrates the student used learned knowledge on the natural process of nitrogen fixation by lightning to develop and conduct an extensive experiment to test a hypothesis related to soil nitrate levels
  - ¥ shows the student applied technological knowledge and skills
    - ¥ indicates the student applied various core- and specialized-level information management/ communications knowledge through a laboratory simulation.