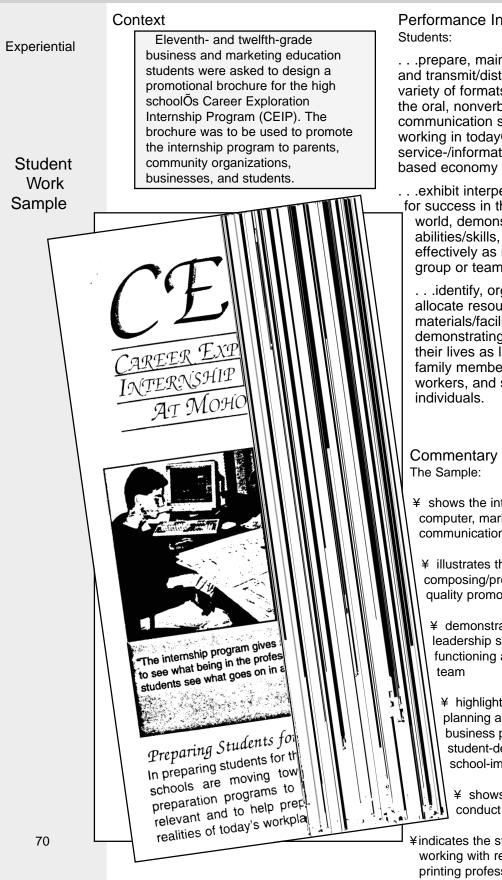
### Standard 3bNCareer Majors: Business/Information System



Performance Indicators

... 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-

S

. . .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

¥ shows the integration of studentsÕ computer, marketing, and communication skills

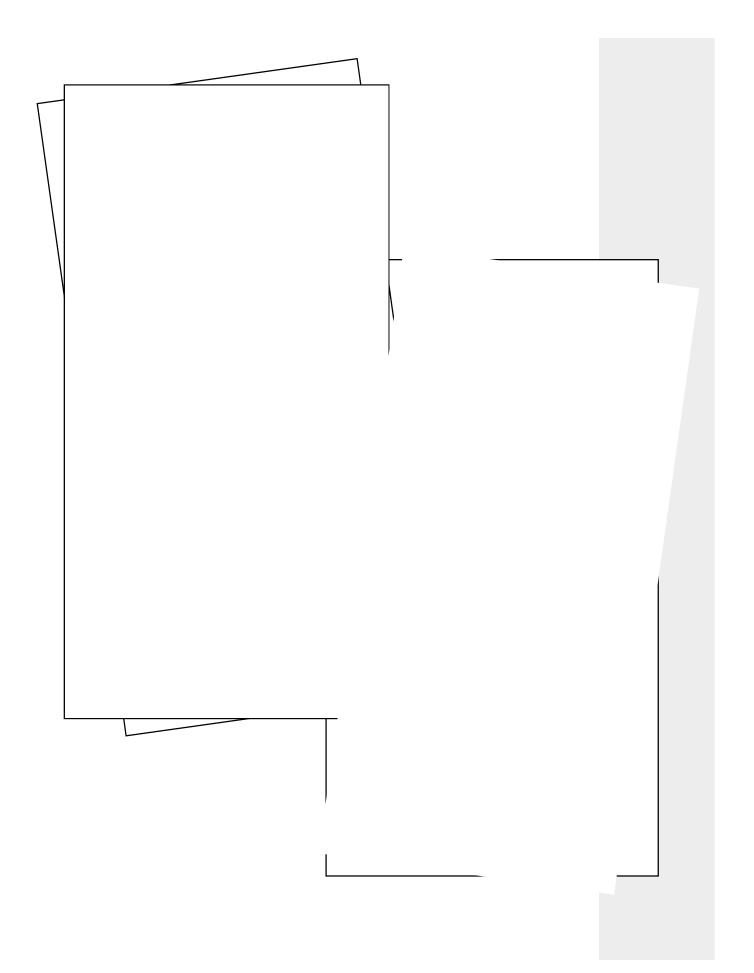
¥ illustrates the studentsÕ abilities in composing/producing a professionalquality promotional brochure

¥ demonstrates the studentsÕ leadership skills and their abilities in functioning as members of a work

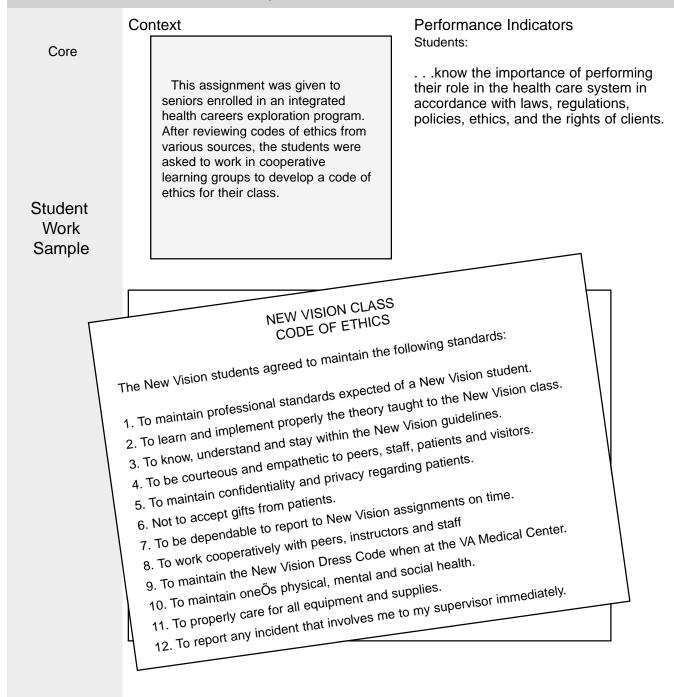
¥ highlights the studentsÕ abilities in planning and implementing a real-life business project according to a student-developed timeline and school-imposed financial budget

¥ shows the studentsÕ abilities to conduct appropriate research

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



## Standard 3bÑCareer Majors: Health Services



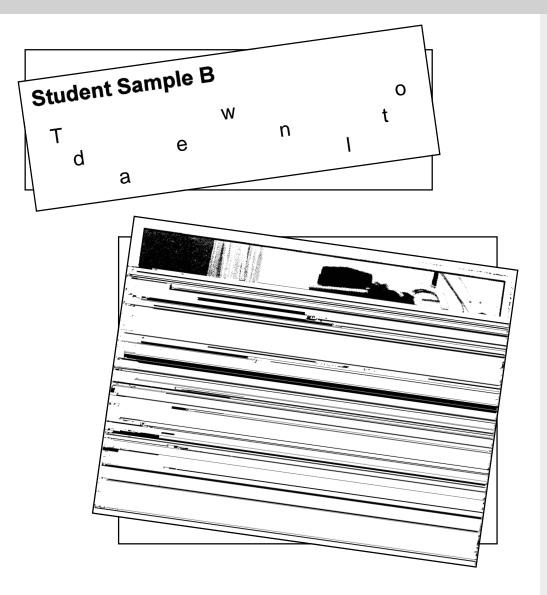
# Standard 3bÑCareer Majors: Health Services

Core	Context 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.	
gy, s Bi Un Fo the tic hi	Perhaps the most important aspost Perhaps the most important aspost physiology. This science deals with the st physiology. This science deals with the st structures work together to maintain body structures work together to maintain body deal with keeping the human body health deal with keeping the human body health together to maintain body	he organisms within it. Ing the basic principles of health. Ing the basic principles of understand and uti- its or the dietitians to know and under- or the dietitians to know and under- scribe the best food and supplements is particularly need to understand chem- its controlled by a series of chemical reac- tice controlled by a series of chemical reac- tice controlled by a series of chemical reac- help correct imbalances in the body. By a health. Physics is the study of the the cardiologists and electrocardiogram to the Cardiologists and electrocardiogram is proprehend how the heart works is chemicans study these impulses by studying the electrocardiogram. Nurses apply the the- structures of the human body and how these is principles. Since all health professions is phomeostasis. Since all health professions	
74	The study of service and anatomy and physics, and anatomy and physics, and anatomy and physics as they play a crucial role in understand	part of all healthrelated normal comprehend blogy are important to study and comprehend blogy are human body and keeping it healthy. Inding 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:

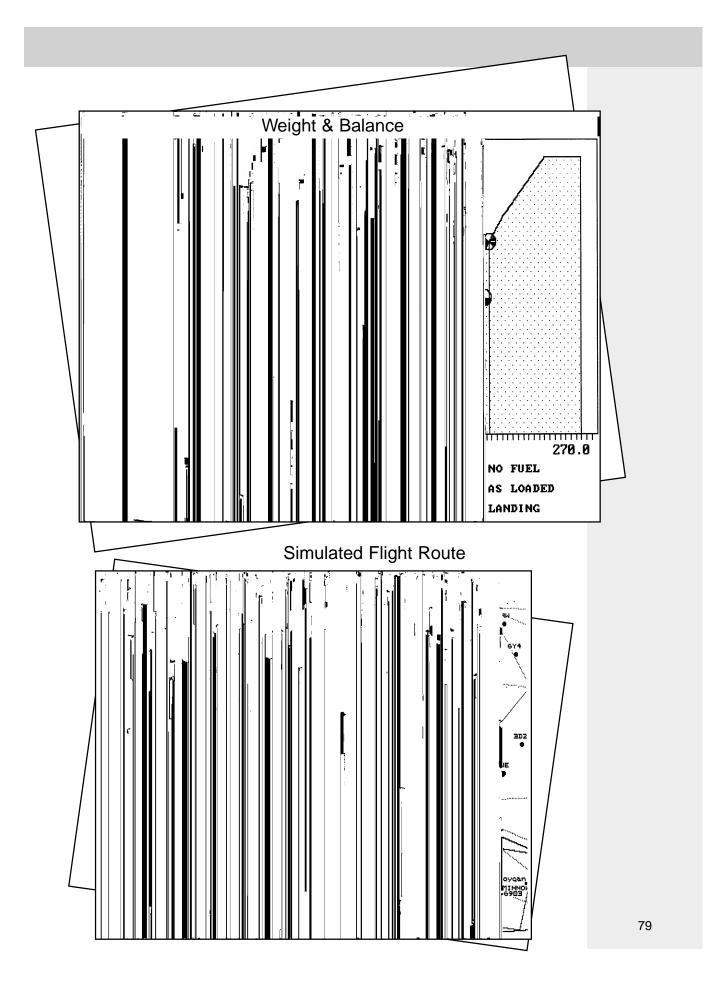
- ¥illustrates that students can design and organize a presentation to instruct preschool and elementary students about preventive health practices such as proper dental care
- ¥indicates that students can synthesize and adapt material to suit the audience
- ¥shows that students can inform others of the importance of a dentist and dental assistant in the health care system.

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

Context Performance Indicators Students: Experiential Aviation students had to develop ...develop practical understanding of flight plans, research the weather engineering technology through reading, via the Internet from Purdue writing, sample problem solving, and University and the Duat Weather employment experiences Service. The students performed weight and balance calculations and ...demonstrate how all types of plotted weather maps, using paper engineering/technical organizations, and pencil. They performed manual equipment (hardware/software), and navigation methods and basic flight well-trained human resources assist and planning procedures, using a expedite the production/distribution of navigation plotter and circular slide Student goods and services rule known as an E-GB. Work ...demonstrate knowledge of planning, Sample product development and utilization, and evaluation that meets the needs of industry. FliteStar (V3.70) Flightplan 04/02/96 S. Mroz Name: Learje craft: ATE/FUEL Rem. Rem. Rem. Temp GS Alt-End MH 217.6 51.9 LON: W091 29.1 00:02 \*\* CLIMB \*\* 10.2 KEAU: LAT: N44 210/26 273 MSA: 3600 907 103 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.



## Standard 3bÑCareer Majors: Engineering/T echnologies

Experiential

Student

Work

Sample

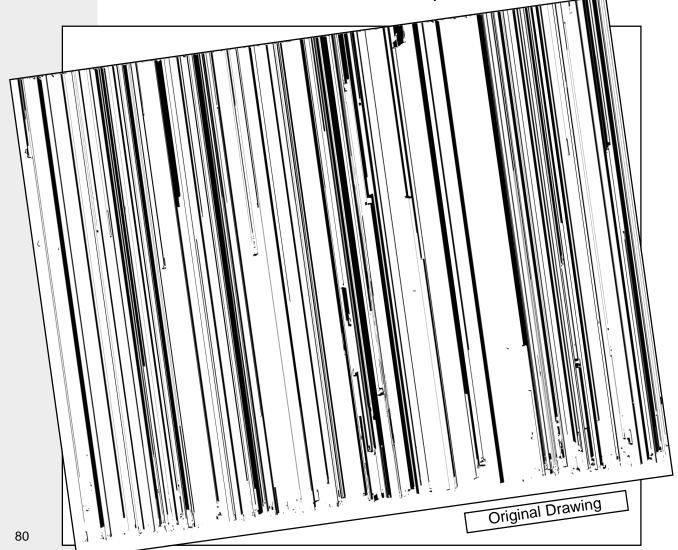
Context

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

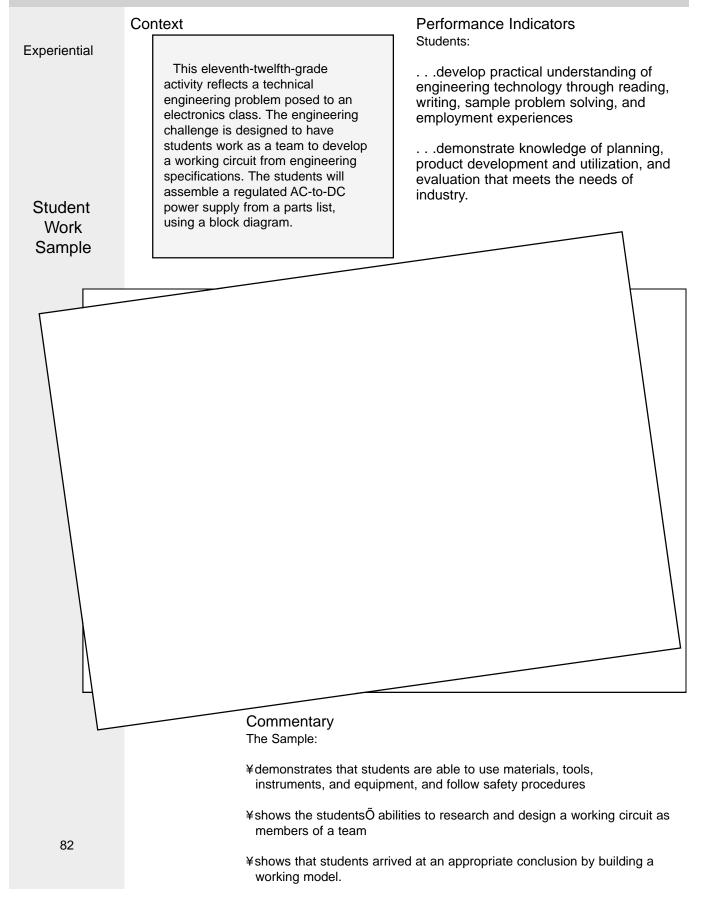
...demonstrate how all types of engineering/technical organizations, equipment (hardware/software), and well-trained human resources assist and expedite the production/distribution of goods and services

...demonstrate knowledge of planning, product development and utilization, and evaluation that meets the needs of industry.

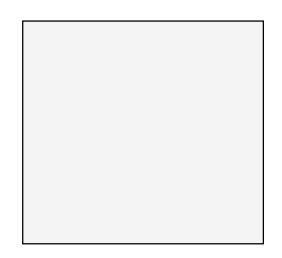




### Standard 3bÑCareer Majors: Engineering/T echnologies



Parts List and Block Diagram	
C1 - 2000 TO 3000 UE Capacitor	
\	



¥illustrates the studentÕs

thesaurus, format, and other editorial tools).

Student Commentary on Successful Job Application and 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, 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 resume. Mike was very impressed with the organization of my resume. He asked me questions pertaining to my experience and I felt very confident and reassured when answering 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 fail back of it in the 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 could get you the chance to get your foot in the door and begin a great job. Also, your resume boosts your self-esteem, makes you realize all of your achievements and gives you an opportunity to talk about yourself and overall you feel 100% better regardless if you get the job or not, you feel better knowing all you have done.

# Standard 3bÑCareer Majors: Human and Public Services

	Context		Performance Indicators		
Specialized	In this project, stude human services cours eighth-grade students in a Òshadowing day a normal day in high s like.	se invited s to participate Ó to learn what	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 Eighth Grade Shadowing Day - 1995 Evaluation Form Commentary The Sample:   Please respond to the following questions regarding eighth grade shad- owing day. Please be specific and complete. ¥ demonstrates how the studen worked to contribute to a positive high school environment   1. What did you expect the high school to be like before you came to visit on shadowing day? I wasnÕt sure. Linthe chart below:   2. How did you spend your shadowing day? F <u>ill in</u> the chart below: K shows the studentsÕ					
V	isit on shadowing I wasnÕt sure.	r shadowing day? Fi	l in the chart below.	shows the	
	2. How did you spend you	Escort	Typing	tudentsÕ consideration	
]	Period	Lori	F Room f	or the needs	
	1	Lori		graders in formulating	
	2	Entire class	S-H (tour)	the project	
	3	Rose	Govem.	¥ indicates that	
	4	Rose	French	responses will be	
	5 (jupph)	Rose	Creative Express.	used to set goals for	
	6 (Lunch)	Rose	Child Phys.	future transition	
7 Lori Crine Ital <					
	My least latter English, but it was f	ree periou. Ana			

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

### Standard 3bÑCareer 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.

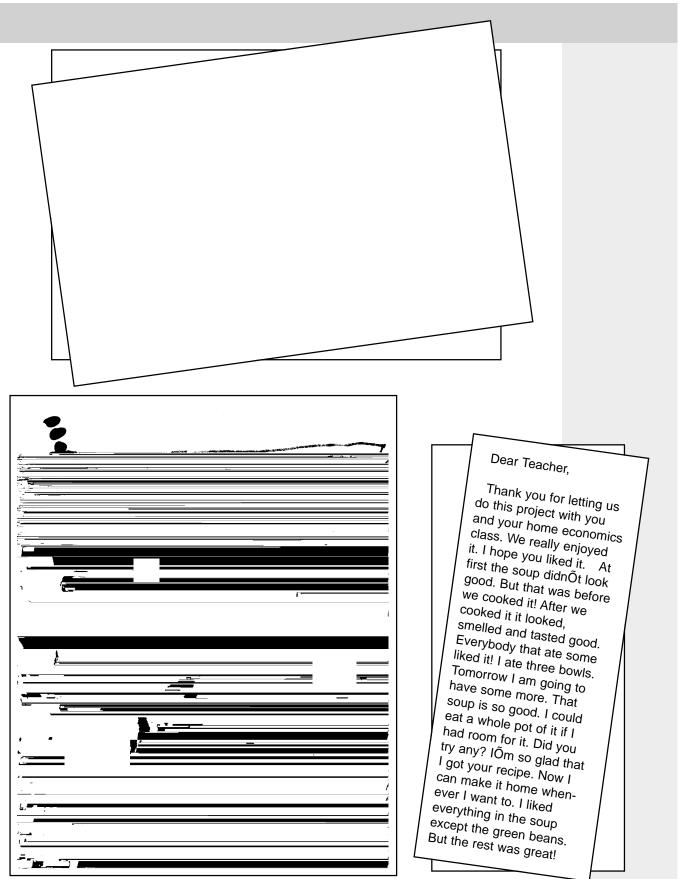
I learned that teaching is not only helping students learn, but also dealing with their everyday problems. Teaching is a very strenuous job. It is interesting, fun and exciting, yet it is also very frustrating and stressful. A teacher must have motivation to help a child and a lot of dedication to his/her

I enjoyed working with the students one on one. I job. 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.

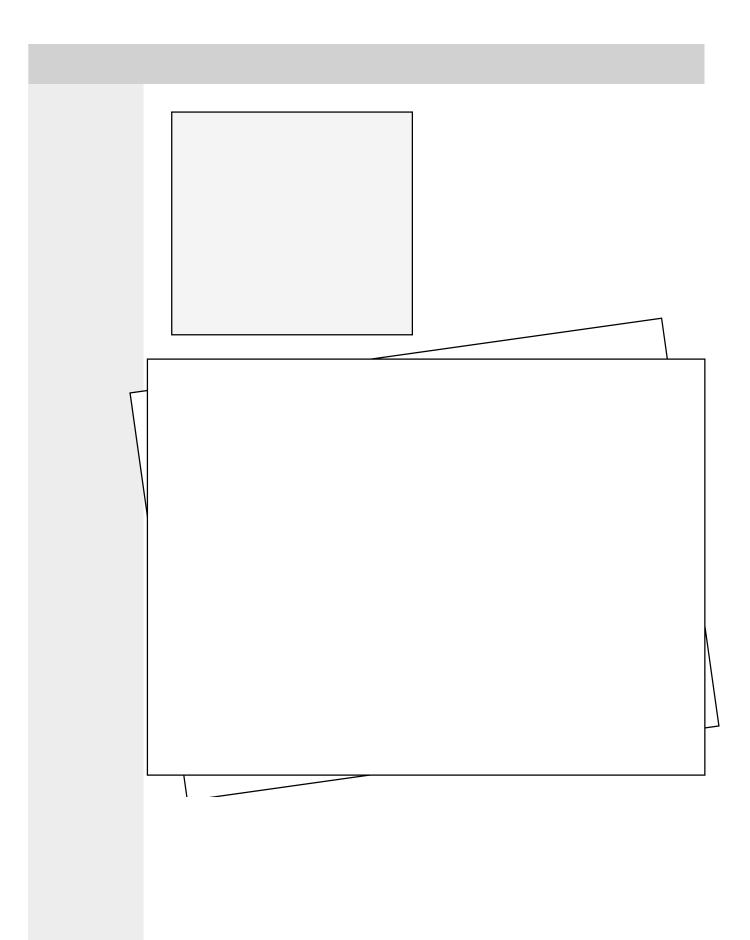
(work done by an eleventh-grade student)

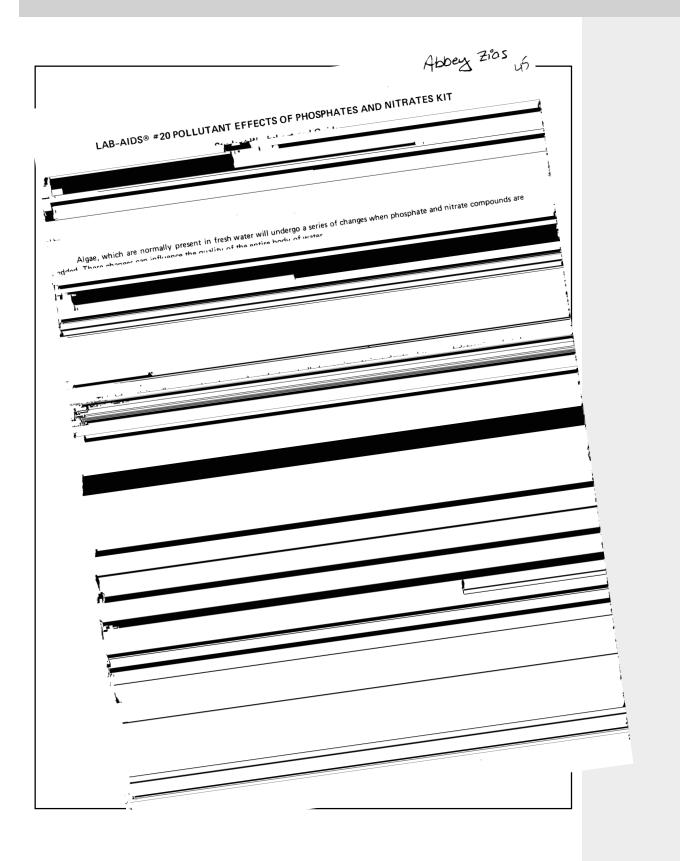
Commentary The Sample:

- ¥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.



(work done by an elementary student)





### Standard 3bÑCareer Majors: Natural and

Context

#### Specialized

This ninth-grade report was prepared in response to a new high school FFA program called ÒAdopt-A-Classroom.Ó 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 Òworm castings.Ó Vermicompost is a more general term than worm castings. A casting is the material deposited after itOs moved through the wormOs digestive tract. Vermicompost also contains worm castings, but also consists of partially decom-

Leto 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 posed bedding and organic waste.

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 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 sysnow and they are actually doing better than my 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 hermaphroform 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 diff 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. erable wastes such as apples, whee grounds, with meal, bleaus, would be an produce 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 3bÑCareer 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.

Student Work Sample 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 todayÖs agricultural industries

... prepare, maintain, interpret, and disseminate quantitative and qualitative pieces of information relating to the natural and agricultural sciences.

ApplicantOs Story: Indicate pertinent information relative to your agriscience project. Summarize how you selected your project, your agrissionse project. Summarize now you science your project your personal management decisions, accomplishments, failures, any unusual events or circumstances affecting this enterprise and

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 ammonia, I began to wonder about other positive effects that lightning might have on the soil and plant growth. After much research on the subject, I came to the conclusion that the chemical reaction that lightning produces in the atmosphere could possibly be replicated in a controlled environment, and thus raise the nitrate level in the soil which would also stimulate plant growth under proper

After researching the subject, I began formulating designs for the growing conditions.

miniature greenhouses. I determined that I would test the nitrate level and pH of the soil, runoff water, and incoming water. I decided 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 for my experiment and determined the frequency of the electrodes

The data that I recorded showed the experiment plants that were and precipitation.

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 outside the greenhouse and the control into the greenhouse, to prevent the airflows from mixing and being pulled back into the control. The frequency of the precipitation provided by the sprinklers had to be adjusted because the plants were becoming oversaturated. 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.