



SUPERVISED AGRICULTURAL EXPERIENCES

Introduction and Outline

WHAT IS A SUPERVISED AGRICULTURAL EXPERIENCE?

- Also Known as an SAE
- Student facilitated project (completed outside of class)
- Year Long Project
 - Check points along the way
- Placement, Entrepreneurship, and Research
- Project portfolio will be completed on AET
- Final Project will be displayed on a project board for interviews

CATEGORIES

- Animal Systems
- Environmental/Natural Resource Systems
- Food Systems
- Plant Systems
- Power, Structure, and Technology Systems
- Social Systems

HOW DO YOU CHOOSE AN SAE PROJECT?

Placement

Paid or Unpaid Placement

Means you are conducting work at a PLACE of business (owned by someone else)

Examples:

Working with a dog trainer or breeder

Working at a dog shelter

Working on a ranch or farm

*Placement projects cannot be completed at home

HOW DO YOU CHOOSE AN SAE PROJECT?

Entrepreneurship

Means you are the owner/operator of a business or the work you are conducting

Examples:

Lawn Care Service (Mowing Lawns)

Dog Walking Business

Making and Selling a Product

Raising Livestock Animals

*Providing a Product or Service for Money

HOW DO YOU CHOOSE AN SAE PROJECT?

Research

Means you are conducting an experiment/collecting data

Examples:

Surveying people to see if they can taste the difference between grass-fed and grain-fed beef

Testing fast food items to see which restaurant has the best fries

Influencing the growth rate of vegetable plants using homemade fertilizers

Testing additives to make a fire-resistant paint

Finding the best method of irrigation for maximum surface area dispersion

*Can be completed individually or as a team (2 people maximum)

DEADLINES

Placement/Entrepreneurship

Topic Approval

Due by 09/08/23 2:30 p.m.

Project Plan (All Parts)

Due by 10/06/23 2:30 p.m.

Expenses and Income Check

Due by 11/03/23 2:30 p.m.

Reflection (All Parts)

Due by 01/19/23 2:30 p.m.

Project Board and Written Report

Due by 02/09/24 2:30 p.m.

Research

Topic Approval

Due by 09/08/23 2:30 p.m.

Title, Hypothesis, and Purpose

Due by 10/06/23 2:30 p.m.

Materials, Variables, and Procedures

Due By 11/03/23 2:30 p.m.

Conclusion

Due by 01/19/23 2:30 p.m.

Project Board and Written Report

Due by 02/09/24 2:30 p.m.

SAE/AGRISCIENCE FAIR INTERVIEWS 02/23/2024

DEADLINES SUBJECT TO CHANGE

ALL DEADLINES ARE FINAL-LATE SUBMISSIONS WILL NOT BE ACCEPTED

Placement/Entrepreneurship

Topic Approval

Project Plan (All Parts)

Expenses and Income Check

Reflection (All Parts)

Project Board and Written Report

PROJECT BOARD LAYOUTS

Time Investment	<u>Project Name</u> Description	Inventory & Expenses
Financial Investment	Pictures and Captions	Profit/Loss Report
Skills		Reflection

Research

Topic Approval

Title, Hypothesis, and Purpose

Materials, Variables, and Procedures

Conclusion


Project Board and Written Report

PROJECT BOARD LAYOUTS

Abstract	<u>Project Title/Question</u> Materials & Procedures	Purpose
Hypothesis	Data/Graphs/Charts	Conclusion
Variables	Results Pictures and Captions	Application

SETTING UP YOUR SAE PROJECT

Login to AET (theaet.com)

 Blue: 3

ProfileJournalFinancesReports

Chapter Account

Inbox

Calendar

Portfolio

Scoreboard

Sign Off

Cash/Checking: \$11,118

Current/Projects: \$707

Non-Current: \$0


Liabilities: \$0

Student Help


Teacher Help


AET Classroom


Ask AET a Question


 **AET Profile**


About You

 Manage/Edit your personal profile and password


 Record your class schedule


 Resume, Career Goals, Transcripts & References


 Emergency Info & Permission Forms


 Explore your SAE interests


Your Activities

 Project/Experience Manager (SAE, WBL)


 Enter your FFA offices


 Enter your FFA committee memberships


 Test your knowledge and gain a passing score


 Browse Job Board


Career Connector

 Choose your educational and career interests

 Explore your interest using "My Next Move"

 Explore agricultural career opportunities and more!

 AET access for Mentors and Parents/Guardians

 Survey of Education and Career Plans

SETTING UP YOUR SAE PROJECT

Open your Profile

The screenshot displays the AET Profile interface. At the top, a blue header bar contains the FFA logo, the text "Blue: 3", and four navigation tabs: "Profile", "Journal", "Finances", and "Reports". The "Profile" tab is currently selected.

On the left side, there is a sidebar menu with the following links: Chapter Account, Inbox, Calendar, Portfolio, Scoreboard, Sign Off, Cash/Checking: \$11,118, Current/Projects: \$707, Non-Current: \$0, Liabilities: \$0, Student Help, Teacher Help, AET Classroom, and Ask AET a Question.

The main content area is titled "AET Profile" and features a user profile icon. Below the title, there are three main sections:

- About You**: Contains links for "Manage/Edit your personal profile and password", "Record your class schedule", "Resume, Career Goals, Transcripts & References", "Emergency Info & Permission Forms", and "Explore your SAE interests" (with an SAE Explorer logo).
- Your Activities**: Contains links for "Project/Experience Manager (SAE, WBL)", "Enter your FFA offices", "Enter your FFA committee memberships", "Test your knowledge and gain a passing score" (with an EXAM icon), and "Browse Job Board" (with a Jobs icon).
- Career Connector**: Contains links for "Choose your educational and career interests", "Explore your interest using 'My Next Move'" (with an o-net icon), "Explore agricultural career opportunities and more!" (with an AG icon), "AET access for Mentors and Parents/Guardians" (with a MENTOR icon), and "Survey of Education and Career Plans" (with a survey icon).

SETTING UP YOUR SAE PROJECT

Click on Project Experience Manager (SAE)

The screenshot shows the AET Profile page. At the top, there is a blue header bar with the FFA logo and 'Blue: 3' on the left, and navigation tabs for 'Project Experience Manager', 'Journal', 'Finances', and 'Reports' on the right. Below the header, the 'AET Profile' section is visible, featuring a user icon and the title 'AET Profile'. A large, dark blue arrow points from the 'Project Experience Manager' tab down to the 'Project/Experience Manager (SAE, WBL)' option in the 'Your Actions' column. The page is divided into three main columns: 'About You', 'Your Actions', and 'Career Connector'. The 'About You' column includes options like 'Manage/Edit your personal profile and password', 'Record your class schedule', 'Resume, Career Goals, Transcripts & References', 'Emergency Info & Permission Forms', and 'Explore your SAE interests'. The 'Your Actions' column includes 'Project/Experience Manager (SAE, WBL)', 'Enter your FFA offices', 'Enter your FFA committee memberships', 'Test your knowledge and gain a passing score', and 'Browse Job Board'. The 'Career Connector' column includes 'Choose your educational and career interests', 'Explore your interest using "My Next Move"', 'Explore agricultural career opportunities and more!', 'AET access for Mentors and Parents/Guardians', and 'Survey of Education and Career Plans'. On the left side of the page, there is a sidebar with links for 'Chapter Account', 'Inbox', 'Calendar', 'Portfolio', 'Scoreboard', 'Sign Off', and financial information: 'Cash/Checking: \$11,118', 'Current/Projects: \$707', 'Non-Current: \$0', and 'Liabilities: \$0'. At the bottom of the sidebar are links for 'Student Help', 'Teacher Help', 'AET Classroom', and 'Ask AET a Question'.

Chapter Account
Inbox
Calendar
Portfolio
Scoreboard
Sign Off

Cash/Checking: \$11,118
Current/Projects: \$707
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Student Help
Teacher Help
AET Classroom
Ask AET a Question

AET Profile

About You

- Manage/Edit your personal profile and password
- Record your class schedule
- Resume, Career Goals, Transcripts & References
- Emergency Info & Permission Forms
- Explore your SAE interests

Your Actions


- Project/Experience Manager (SAE, WBL)
- Enter your FFA offices
- Enter your FFA committee memberships
- Test your knowledge and gain a passing score
- Browse Job Board

Career Connector

- Choose your educational and career interests
- Explore your interest using "My Next Move"
- Explore agricultural career opportunities and more!
- AET access for Mentors and Parents/Guardians
- Survey of Education and Career Plans

SETTING UP YOUR SAE PROJECT

Click “Add New”


 Blue: 3

JournalFinancesReports

Project Experience Manager (SAE)

[Print All SAE Agreements](#)

Add NewReturn to AET

 [View SAE Assessments](#)
0 Unread Assessments

Chapter Account

Inbox

Calendar

Portfolio

Scoreboard

Sign Off

Cash/Checking: \$11,118


















+ Current/Projects: \$707

Non-Current: \$0

Liabilities: \$0

Student Help

Teacher Help

Settings / Planning (#1)			Records (#2)			Reflection (#3)	
Settings (Active, Setup, Location)	Start Yr - Name / Type	Planning (SAE Plan, Budget)	Financial Entries	Journal Entries	Files / Videos	Current Value?	Resources? (Annual Review, Inventory, Usage, Skills, Reporting)
  	2023 Beg.- Florida Agriculture & Wildlife Expo Swine project EN - Swine	 	3	3	0 / 0	\$707.25	    
  	Animal Medical Center PL - Veterinarian		0	3	0 / 0	141.0 hrs	  

SETTING UP YOUR SAE PROJECT



Blue: 3

Profile

Journal

Finances

Reports

Chapter Account

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Portfolio

Scoreboard

Sign Off

Cash/Checking: \$11,118

+ Current/Projects: \$707

Non-Current: \$0

Liabilities: \$0



Student Help

Teacher Help

AET Classroom

Ask AET a Question

Add/Edit Experiences

Project Name: ?	<input type="text" value="2023-2024 SAE Project"/>	Enter a short descriptive name for this experience.
Experience Focus: ?	<input checked="" type="radio"/> Individual  Leave as "Individual" <input type="radio"/> School Based <input type="radio"/> Service Learning	Select whichever type of project you think you are doing (You can always change this)
Tracking Your Experience: ?	Basic: <input type="radio"/> Foundational	? Journal Only
	Agriscience: <input type="radio"/> Research/Experimental 	? Journal and Finances
	Job: <input type="radio"/> Paid Placement <input type="radio"/> Unpaid Placement	? Paychecks and Journal
	Business: <input type="radio"/> Entrepreneurship/Ownership	? Journal and Finances
Primary Experience Category: ?	<input type="text" value="(Please Choose)"/>	Explore AFNR Categories
Primary Subcategory: ?	<input type="text" value=""/>	

Save

Cancel

SETTING UP YOUR SAE PROJECT

Calendars | Students & Families x | 2023-24 Teacher Calendar x | 2023 - Revised Second Semester x | The Agricultural Experience Track x

https://www.theaet.com/AET/Financial/ExperienceEdit2.aspx?ID=-1

Import favorites | Hernando School District | Canine Info | Acute hepatitis... | Canvas Home Page | FFA Creed Jeopardy | FFA Basics Jeopardy... | Kahoot! Creator | Florida Statewide A... | Login - Powered by...

AET Brooksville | CAMDEN COLEMAN [Log Out](#)

Blue: 3

Profile Journal Finances Reports

Add/Edit Experiences

Project Name: ?	<input type="text" value="2023-2024 SAE Project"/>	Enter a short descriptive name for this experience.
Experience Focus: ?	(Please Choose) Agribusiness Systems Animal Systems Biotechnology Systems Career Ready Practices Education and Communication (Cluster Skills) Environmental Service Systems Food Products and Processing Systems Foundational Natural Resource Systems Plant Systems Power, Structural and Technical Systems	
Tracking Your Experience: ?		Journal Only Journal and Finances Paychecks and Journal Journal and Finances
Primary Experience Category: ?	(Please Choose)	Explore AFNR Categories
Primary Subcategory: ?		

[Save](#) [Cancel](#)

2805183 | 6375 | Friday, May 26, 2023

Chapter Account
Inbox
Calendar
Portfolio
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Sign Off

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Current/Projects: \$707
Non-Current: \$0
Liabilities: \$0






Student Help
Teacher Help
AET Classroom
Ask AET a Question

Type here to search

70°F 8:48 AM 5/26/2023

SETTING UP YOUR SAE PROJECT

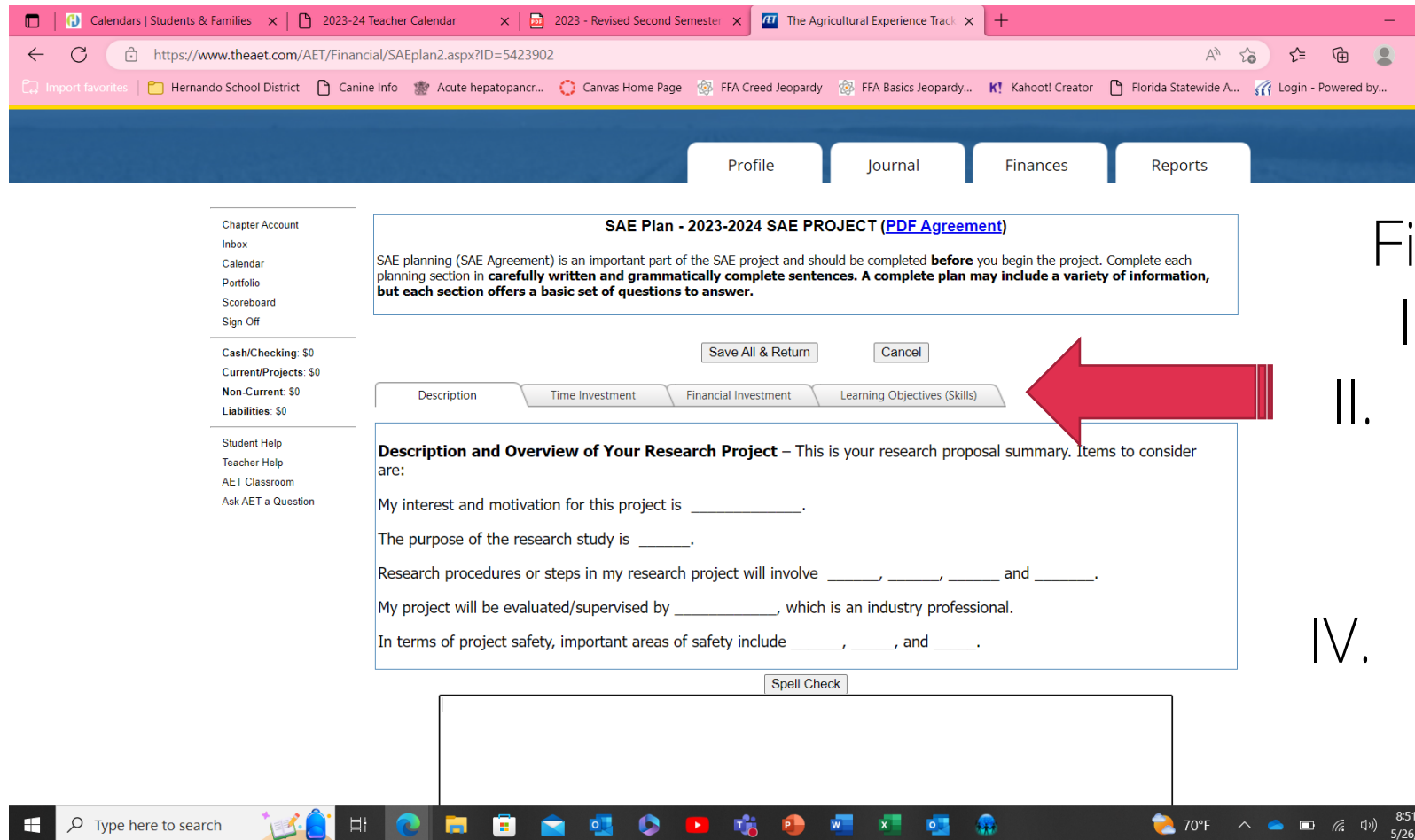
The screenshot shows the AET Financial/Experience Manager web application. The browser address bar displays <https://www.theaet.com/AET/Financial/ExperienceMgr.aspx>. The page header includes the AET logo, the user's name 'Brooksville | TUTORIAL ACCOUNT', and a 'Log Out' button. Below the header, there are tabs for 'Profile', 'Journal', 'Finances', and 'Reports'. The main content area is titled 'Project/Experience Manager (SAE)' and includes a 'Print All SAE Agreements' link, an 'Add New' button, and a 'Return to AET' button. A table displays the project details, with a red arrow pointing to the pencil icon next to the '2023-2024 SAE PROJECT RE - Swine' entry in the Planning column.

Settings / Planning (#1)		Records (#2)			Reflection (#3)		
Settings (Active, Setup, Location)	Start Yr - Name / Type	Planning (SAE Plan, Budget)	Financial Entries	Journal Entries	Files / Videos	Current Value?	Resources? (Annual Review, Inventory, Usage, Skills, Reporting)
  	2023-2024 SAE PROJECT RE - Swine	 				\$0 0 hrs	
GRAND TOTAL			0	0	0	\$0 0 hrs	

4043229 | 6375 | Friday, May 26, 2023

Click the Pencil
to edit your
project plan

SETTING UP YOUR SAE PROJECT



SAE Plan - 2023-2024 SAE PROJECT ([PDF Agreement](#))

SAE planning (SAE Agreement) is an important part of the SAE project and should be completed **before** you begin the project. Complete each planning section in **carefully written and grammatically complete sentences**. A complete plan may include a variety of information, but each section offers a basic set of questions to answer.

Save All & Return Cancel

Description Time Investment Financial Investment Learning Objectives (Skills)

Description and Overview of Your Research Project – This is your research proposal summary. Items to consider are:

My interest and motivation for this project is _____.

The purpose of the research study is _____.

Research procedures or steps in my research project will involve _____, _____, _____ and _____.

My project will be evaluated/supervised by _____, which is an industry professional.

In terms of project safety, important areas of safety include _____, _____, and _____.

Spell Check

Fill in all the tabs:

- I. Description
- II. Time Investment
- III. Financial Investment
- IV. Learning objective (Skills)

FINAL SAE PROJECT PORTFOLIO

Profile

Journal

Finances

Reports

Chapter Account

Inbox

Calendar

Portfolio

Scoreboard

Sign Off

Cash/Checking: \$0

Current/Projects: \$0

Non-Current: \$0

Liabilities: \$0

Student Help

Teacher Help

AFT Classroom

Project/Experience Manager (SAE)

[Print All SAE Agreements](#)













Add New

Return to AET



[View SAE Assessments](#)

0 Unread Assessments

Settings / Planning (#1)			Records (#2)			Reflection (#3)	
Settings (Active, Setup, Location)	Start Yr - Name / Type	Planning (SAE Plan, Budget)	Financial Entries	Journal Entries	Files / Videos	Current Value?	Resources? (Annual Review, Inventory, Usage, Skills, Reporting)
  	2023-2024 SAE PROJECT RE - Swine	 	 0	0	0 / 0	0.0 hrs	     
GRAND TOTAL			0	0	0	\$0 0 hrs	

Click the report icon to download and print your SAE Project Portfolio

FINAL SAE PROJECT PORTFOLIO



FL - Brooksville

NATHANAEL MONROE 603313942

The Affects of Ground Glass in Concrete

Generated:
5/26/2023 08:02

SAE Information - The Affects of Ground Glass in Concrete

Name:	The Affects of Ground Glass in Concrete
SAE Type:	Research/Experimentation
AFNR Pathway:	Power, Structural and Technical Systems
SAE Subcategory:	Fabrication
Date Range:	8/27/2018 - 11/1/2021

Scope - The Affects of Ground Glass in Concrete

Year	Description
2018	Agriscience Fair Project- The Affects of Ground Glass in Concrete.
2019	Agriscience Fair Project- The Affects of Ground Glass in Concrete.
2020	Agriscience Fair Project- The Affects of Ground Glass in Concrete.
2021	Agriscience Fair Project- The Affects of Ground Glass in Concrete.

SAE Plan - The Affects of Ground Glass in Concrete

Description		
The general outline of this project is to test ground glass as an aggregate in concrete. The purpose of this research study was to find an economically feasible way to recycle glass. The basic procedures of my project was pretty simple I was first to find a testing facility to test my samples, second was to make the samples, third was to test the samples, and fourth and finally I had to finalize the project to be ready for the competition. Safety was very important throughout the process of this project, especially during the making and testing of the project. It was important that during these times I was wearing steel toed boots, gloves, and safety glasses. Another safety feature that was utilized was a dust collector, this allowed us to be free from breathing in small particles.		
Time Investment		
I spent approximately 137 hours in total throughout the process of completing this project. About three hours was spent to create the project and another three hours to test the project. The steps in my research included researching effective ways to recycle concrete, the basics of concrete, and previous works of using recycled materials in concrete. A key date in my project was December 11, 2018 when I tested this project at Cemex Riverview, Florida. I plan to have a career in the agriculture industry and this project taught me the importance of structures, how they are made, and how closely the betterment of our environment can affect agriculture.		
Financial Investment		
Funding for my research project was provided by my parents, Thomas and Stacey Monroe, as well as, Cemex USA. The total cost of this project was \$209. My expenses included the ground glass as well as the materials needed specifically for the concrete including, cement, silica sand, water, rock, and Admixtures.		
Learning Objectives (SAE Skills)		
Skill Area	Planned Activities	Results or Outcome
ABS.04.03 Identify and apply strategies to manage or mitigate risk.	Using large machinery such as the mixer and the Compression machine had high risks associated with them. I had to take every safety precaution to ensure my safety as well as those helping me. We also used the dust collector to collect all small particles from the air and prevent those working from breathing them in.	I was able to speak with Cemex Riverview staff to identify potential dangers within the manufacturing process. This allowed me to follow proper procedures such as wearing PPE and using machinery correctly to maintain my safety as well as the safety of others.

Journal - Experience-related Activity - The Affects of Ground Glass in Concrete

Date	Activity / Description	Hours
11/1/2021	PST.01.01 Time spent testing, producing, concluding, presenting, etc.	246.00
11/3/2019	PST.01.01 This past week was one to remember. Going to the 92nd National FFA Convention and Expo. I was given the opportunity to compete in the National Agriscience Fair. After competing on Wednesday we attended the lunch in to find out the top 3. In doubt I was sure my name would not be called, but to my surprise it was. The next day during the 4th general session they announced the final placings, where I placed 3rd in the Nation! This was an awesome experience and I hope to experience it again next year.	3.00
10/13/2019	PST.01.01 Today I was able to get my board printed for nationals. It is so exciting to know that I have made it to Nationals and am able to compete. I have also began practicing so that I am ready for my interview.	1.00
10/13/2019	PST.01.01 Today I was able to get my board printed for nationals. It is so exciting to know that I have made it to Nationals and am able to compete. I have also began practicing so that I am ready for my interview.	1.00
5/26/2019	Apply physical science principles and engineering Printed board for agriscience fair. I was hoping for a good turnout, unfortunately it was not. It turned out blurry so I have to re print it as soon as the weekend is over.	2.00
4/29/2019	Apply appropriate academic and technical skills. Completed application and sent to state office.	1.00
4/7/2019	Apply physical science principles and engineering Rechecked spelling and grammar. Made any corrections needed to better project.	1.00
3/29/2019	Communicate clearly, effectively and with reason. I was able to compete in my schools annual Agriscience Fair. I competed in the Power, Structural, and Technical category, division three. I found out Saturday that I had made it on to the state competition for a chance to make it on to the national competition.	1.00
3/27/2019	Apply physical science principles and engineering I put the finishing touches into my project to insure that it was that I would have the best outcome possible. I fixed some minor things as well as made some changes that would make the project as a whole look nicer and have better wording.	4.00
3/24/2019	Apply physical science principles and engineering Completed agriscience fair project. Written report was almost done so that was easy. But I had to print and paste the info for the board. Log book was pretty easy but not so quick to write.	4.00
3/10/2019	Apply physical science principles and engineering Total for week. Spent working on all components for agriscience fair project. Including Written Report, Log Book, and the Board.	9.00
2/28/2019	Apply physical science principles and engineering For the past couple of weeks I have been working to finish my agriscience fair project. I have been working on the Written Report as well as the layout for my board.	1.00
2/19/2019	Demonstrate stewardship of natural resources in AF This week I continued to work on my agriscience fair project. I have been working mainly on the written report and starting this week I will begin to put the project board and log book together.	1.00
1/27/2019	Apply physical science principles and engineering I have been in the process of completing my Written Report. Through doing this I am learning the skills to properly complete my written report. I will also be beginning my log book soon.	2.00
1/13/2019	Apply physical science principles and engineering Due to Cemex not allowing me to test the full extent of my agriscience fair project I with the help of my advisors had to find a new way to word it. Cemex has a new "line" of concrete enhancer called AdMixture. They tested my control group and 50/50 as well as a control with AdMIX through a Slump test. Fun Fact the first AdMIX plant ever but also to provide all Cemex plants globally was opened in Brooksville, our home town.	1.00
12/16/2018	Apply physical science principles and engineering I began my agriscience fair project by going to Cemex and making the samples to be tested. It will take 28 days for all of the test to become complete.	4.00
9/26/2018	Apply physical science principles and engineering During club day we began to work on the next part of our Agriscience Fair Project. I began working on my hypothesis. After rewriting it five times I finally got it just right. I then worked on the purpose which was pretty easy and I only had to redo it a few times. After that I worked on the title it was either "funny" or serious, I decided to use the more serious one. It was also the better fit one. So overall I think my project will turn out pretty good.	2.00
9/23/2018	Apply physical science principles and engineering I found out that I actually know someone who works at Cemex. She also knows the person that is in charge. As I was talking to her she has been in contact with the lab manager and they are willing to let me in. They are also willing to allow me to use what I need (As long as it is actually needed.) I am really excited to be able to work with the people at Cemex and also to be able to test and find out the results of this project!	1.00
8/30/2018	Plan, build and maintain AFNR structures. I have figured out the project I will be doing. I will create concrete with recycled materials instead of the industry standard aggregates. After creating the concrete I will test it and see if it will hold up to as many pounds per square inch as concrete with the industry standard aggregates.	1.00
8/27/2018	Apply physical science principles and engineering After multiple times of writing my question, I was finally able to get it just right. My teachers Ms. Nelson and Mr. Ahrens both approved of my question for the project.	1.00
	Total Entries: 20	287.00

Journalled Skills		# Entries	# Evals	Avg Eval
PST.01.01	Apply physical science and engineering principles to assess and select energy sources for AFNR power, structural and technical systems.	4	0	
Total (Evaluation: 1=Limited, 2=Basic; 3=Proficient; 4=Exemplary)		4	0	

Operating Expense - The Affects of Ground Glass in Concrete

Date	Vendor	Memo	Amount
11/28/2018	Supplies amazon.com	Ground Glass/ 17.22 per 5 LBS.	\$86.10
2/23/2019	Supplies Amazon/Walmart		\$200.00

Operating Income - The Affects of Ground Glass in Concrete

Date	Vendor	Memo	Amount
2/23/2019	Res Fund Parents		\$286.00

Profit/Loss Report - The Affects of Ground Glass in Concrete

Type	2018	2019	2020	2021	2022	Total
1. Revenues from Operations						
Beginning Current Inventory		\$0	\$0	\$0	\$0	
Market Inventory Adjustments						
Ending Current Inventory						
Change in Current Inventory						
Research Funding		\$286				\$286
Gross Cash Revenues		\$286				\$286
Gross Non-Cash Revenues						
Gross Revenues		\$286				\$286
2. Expenses from Operations						
Supplies	\$86	\$200				\$286
Contract/Custom						
Total Cash Expense	\$86	\$200				\$286
Non-Cash Contract/Custom						
Total Non-Cash Expense						
Total Operating Expense	\$86	\$200				\$286
3. Net Income from Operations						
Journalled time (hours)	9.0	32.0		246.0		287.0
Net Current/Operating Income per Hour		\$3				