# U-32 Learning Plan

Name: Kristina Martzke Program: Pilot Date: 1/30/19

|  |
| --- |
|  **PROJECT** |

**What do you want to study, in a sentence:**

I want to learn about science from a spiritual perspective.

**Why are you interested in this study?**

* **what you hope to gain personally by studying this subject**
* **why knowledge of this topic will be valuable and important to you**

I am interested in this study because I think the highest form of knowledge (human knowledge) is a combination of science and spirituality.

I hope to gain personally knowledge of the physical universe.

It is important to me because far too often science and spirituality are divorced and that prevents a lot of magic from taking place, its a wrong I want to right.

**What do you already know about it? What do you think you know (but aren’t sure)?**

I know that it really fascinates me to learn about it but not in class settings. I think I know that science describes the flipside of spiritual phenomena, but there is much more I need to learn.

**Make a list of questions that you hope to be able to answer by the end of the study?**

How does food work in the human/animal/plant body?

What is the anatomy of cells?

What is the anatomy and function of atoms?

**What do you hope to know at the end of the project?** Consider hands on know-how and research.

I hope to know how I can understand science more easily, to be a bit more fluent in the language.

**What do you hope to be able to do/show at the end?**

I hope to be able to show others how science and spirituality are truly one.

|  |
| --- |
|  **ACTION and DOCUMENTATION**  |

**As you shape your goals, remember that you are expected to work on this project a minimum of 4 hours/week.**

|  |  |  |
| --- | --- | --- |
|  **Project goals (minimum of three)****Be specific about skills you’re developing.**  | **Action** **How will you accomplish this? List action steps.** | **Proof** **How will you demonstrate this?** |
| Slideshow about how the body processes food on a molecular level. | * Find resources
* Research
* Take notes
* Draft
* Feedback
* Revise
* Share
 | Slideshow |
| Make an poster/infographic with diagram of cell structures, info about their processes, and how that works towards maintaining homeostasis. | * Find resources
* Research
* Take notes
* Draft
* Feedback
* Revise
* Share
 | Poster/infographic |
| Poster about atom structure. | * Find resources
* Research
* Take notes
* Draft
* Feedback
* Revise
* Share
 | Poster |

**Which methods of information gathering do you plan on using?** (Check all that apply - highlight, ctrl and left click to check)

* Interviewing
* Internship
* Observing, documenting, and/or surveying
* Video or audio-taping
* Gathering and reviewing published information (reading)
* Searching online and electronic databases
* Creating a symbolic representation (model building, map making, etc.)
* Discussion
* Experimentation
* Writing, and reflecting
* Other: what or how?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**What is the biggest overall challenge you anticipate in this project work? What strategies will you use**

 **to address it?** (organization, time management, communication, motivation, etc.)

The biggest challenge I anticipate is poor time management. Strategies I will use and am already using are working from home and giving myself plenty of rest and just general taking care of myself.

|  |
| --- |
|  **WORKING WITH A MENTOR**  |

**What qualities and/or information would your ideal mentor possess?**

**N/A, I am not looking for a mentor.**

**What help do you need from a mentor to accomplish your goals?**

N/A

**How will you give back to the community through your project work?**

N/A

|  |
| --- |
|  **PROFICIENCIES *List the standards and skills you plan to address in this project***  |

|  |  |
| --- | --- |
| **WHAT YOU WILL GAIN PROFICIENCY IN**  | **HOW YOU WILL DO IT** |
| **Content: *for Pilot plans only***  |
| 1. Structure and Function
 | 1. **Molecules food body (slideshow)**

**Cell Structure and Function (poster)****Chemical and Physical properties (poster)** |
|  **Transferable Skills** |
| **I am proficient at the graduation level for every Transferable Skill.**  |  |

|  |
| --- |
|  **BIBLIOGRAPHY** |

**Create an annotated bibliography and list sources that will help you achieve your goals.**

**At minimum include: 2 people, 4 books, and 8 internet sources**

**Approval:** Plans need to be approved by the following people, please sign below once plans are approved

|  |  |
| --- | --- |
| Program Advisor |  |
| Content Area/ Committee Advisor(s)  |  |
| Parent/Guardian  | Micah Martzke |

See next page for Cell Structure and Function rubric.

Still in progress...

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 |
| **Cell Structure and Function: Make connections between cellular structures and processes and their impact on the function of a cell in maintaining the homeostasis of an organism.** | I can create a reference chart to identify key organelles (and their functions) within cells.  | I can explain how different cells within a body system work together | I can apply my understanding of cells and the different roles they play in the body to explain how a multicellular organism maintains homeostasis. | In addition to a “3”I can connect the specialized functions of different systems to explain their role in maintaining homeostasis of a complex/ multicellular organism. |