**ESP4T Project Title**

* Submit a Project Plan for both Raspberry Pi and Arduino with plans to use both throughout the course of the 2021-2022 School Year.
* Please save your project as **LastName\_Firstname\_[Arduino or RPi]\_[Grade]**
* Submit your final plans in Canvas
* Deadline to submit plans is August 7, 2021

**Name:**

**School:**

**City:**

**Grade/Class:**

**Arduino or RPi:**

**Focus of Project/Unit**

*What is the objective? What are you going to use Raspberry Pi or Arduino to do in your classroom? What is the overall goal of this unit?*

**Rationale for Project/Unit**

*How will this enrich or support your classroom? How does this tie into the work you are already doing in your classroom?*

**Standards and/or Learning Goals Addressed**

*List standards this unit will address. Think about if an administrator walked in, how do you justify that this time is well-spent? (Because we know it is!)*

* [*https://www.nextgenscience.org/*](https://www.nextgenscience.org/) *(National Science Standards)*
* [*http://www.corestandards.org/read-the-standards/*](http://www.corestandards.org/read-the-standards/) *(Think about other subjects your unit may address. College and Career Readiness, Mathematical Practices, Speaking and Listening, Science and Technical Subjects,..)*
* [*https://edu.wyoming.gov/downloads/standards/2019/Computer-Science-Standards-2019.pdf*](https://edu.wyoming.gov/downloads/standards/2019/Computer-Science-Standards-2019.pdf) *(Wyoming Computer Science Standards are not expected to be implemented until the 2022 school year, but look at these to see where the state is going and how you can begin implementing them now. If you are not in Wyoming, feel free to look at these or see if your state has Computer Science Standards.)*

**Time Span Involved**

*When do you plan to begin this unit? How long do you expect it to take?*

**Materials Needed**

* *Bulleted list of what you need for this unit*
* *Include worksheets and other resources used*
* *Link to Videos or other internet resources*

**Plan for Implementing the Unit**

* *Use a bulleted list to show the steps to implement this unit.*
* *Designate how the students will be working during each step Whole Group (WG), Small Group (SG), Individually (Ind)*
* *If being split into multiple days, designate what you plan to do each day/session*

*We know and understand this will change!*

**Remote Learning Plan**

* *How will your plan change in the event of a return to virtual learning? Will you use virtual tools, mail kits, show videos?*

**Differentiation**

*How will you ensure all learners are able to complete the desired activities? Think about both high and low students.*

**Unit Extension as Time Allows**

*How can you expand this unit if time allows? Can students independently continue this work? Can it be adjusted to be used in different ways?*

**Teacher Preparation Needed**

*What do* ***you*** *need to do before implementing this unit? Use a checklist if desired. Include any support you may need from district tech departments to install Software on computers.*

**Anticipated Support Needed**

*What support do you need from the UW Students? (E.g. is the code ready to use or will you need help? Do you have everything you need or will you borrow materials from UW?)*

If you need to borrow materials, please list:

* Number of kits requested and any additional materials desired. Note, we cannot guarantee additional materials (e.g. sensors) can be provided.

* When materials are needed (1-2 sentences regarding when the unit will start)

* Physical shipping address (if additional sensors or materials will be required throughout the year)