**Curriculum:**

Damping Diagram:

* It would be nice to have a simple diagram of a WEC with an illustrative example of dampening. I’m imagining something that looks like a free body diagram

Elementary School worksheet:

* It would be nice to create a worksheet for elementary school.
* It could include:
  + Coloring page (Bob the Buoy?)
  + A maze
  + A brief overview of waterpower

Energy Worksheet

* Worksheet that goes over the transfer of energy and the preservation of energy within a system

Different Buoy’s

* It would be fun to have different buoys for the WEC. Good way to teach kids more about buoyancy and how shape can affect power generation

Teacher request form

* There should be a way for teachers to sign up for and request the SIWEED display

Quizlet

* We could turn some of the definitions that we created into Quizlet flashcards that teachers could access.

Have content reviewed by teachers

**Possible Partnerships:**

Sandia Prep School

* Delaney can put you in contact

Albuquerque Aquarium

* Delaney has no contact info for you, just seemed like a fun place for it

UNM School of Engineering

* Reach out to Elsa Castillo
* UNM Energy day (not sure the exact name of the event but usually PNM comes and does solar demos. This could be a great event to show the SIWEED off at)

KIPP School in Oakland

* Delaney has a contact with a science teacher if you all ever attend a conference in the Bay Area

**Software:**

Automatic Mode

* It would be helpful to have a mode that just auto runs the wave tanks. I think ideally it would step through various waves and tunings for the WEC

Loading Screen

* Update the loading screen when you first boot up the GUI so that it isn’t just a blank screen. I think it should explain what it is doing, similar to what Kayak.com does when its searching for flights. (I.e. instead of a rainbow wheel of death it says “Loading GUI. . .” “Connecting to Serial. .” etc

Gamification

* If we want to turn it into even more of a game we could create a leaderboard for who lights up the town the fastest

**MISC**

SIWEED Competition @ MECC

* If we demo the wave tank at the MECC competition it would be fun to have it be a small competition with the teams. Teams (or individuals) could be given a certain time frame (maybe 2 minutes) and who ever can get the WEC to generate the most power within their allotted time wins.

Track Lighting

* Add lights to the bottom of the tank so it glows

**Very Ambitious Ideas**

Web application and Live stream

* Given the remote nature of things now it might be cool to have a SIWEED live stream where people can still change the tuning and dimensions of the waves.

Company Sponsored WECS

* It would be fun to have existing wave energy companies send in small scale versions of their WECs for use in the wave tank

Senior Design project with UNM

* In the future we could sponsor a team at UNM to make something for the SIWEED project. They could build a mini oscillating water column if we want to demonstrate other forms of wave energy.