

Oregon Coast STEM Center PBL Project Overview Section 2

Name of Project: Electricity, magnetism, and ZebraFish

Name of Teacher(s): Sean Bedell

School & District: Eddyville Charter School, Lincoln County

In addition to the online PBL Project Overview, please describe the following in no more than 3 paragraphs per section.

1) How the Project was Conceived and Planned:

During the presentation by Dr. Putman about how salmon use the earth's magnetic to navigate the open ocean. That got me thinking about wave energy and how that might affect fish behavior in the ocean. After that I started thinking how could we create some experiments in the classroom and zebra fish came to mind because they are easy to keep and they are a highly researched fish.

2) How the Project was Managed

- Students were placed in pairs
- The project was broken into small pieces and steps for students check in along the way.
- Rubrics for different parts of the project
- Focus on the scientific process

3) Your (or your team's) Reflection on the project after completion. Include what went well, what might be improved or changed if you were to do this project again, and what the most important student learning was.

Overall the project went well and the students learned a great deal about the scientific process. The small groups went well as well as the experiments themselves. The students really enjoyed presenting for the panel of scientists and really rose to the occasion and produced some good work. One thing I might change is starting the project earlier. This was a long project and it was hard to try to keep on schedule. The most important student learning was the scientific process and identifying variables. I used this project to teach these concepts.

4) Attach any student work samples, products, photos (that you have permission for), or additional documents you would like posted on the website with your Project Overview.

Email your Project Overview as a PDF, this document and any attachments you'd like to include to Ruth.mcdonald@lincoln.k12.or.us.

Your final \$750 pay will be processed as soon as it is received.