

BIRDEE Unit 1 Lesson Plans

Unit 1 Module 7: Design Challenge Communicate Solution	Materials
<u>Module 7 Overview:</u> 1.7.1 Create a Pitch Presentation 1.7.2 Class Presentations	EDPL activity is to create a PDF of problem output from EDPL. Students practice communicating their final solution to the class this Module

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1.7.1. Create a Pitch Presentation

Students will have 1 class period to prepare their “Pitch” presentation. Because they have detailed notes, images, and a physical prototype in their EDPL, they should be able to complete a digital presentation in 1 class period. Alternatively, students may do poster presentations, which may require additional time and supplies.

Teacher Note: The presentation can be in different forms, one non-tech and one high-tech. If you prefer to have a high tech, you can create virtual presentations using PowerPoint slides and if you prefer going low-tech you can create posters. [If you have time, allow students to have conversations and make their decisions.]

Explain: 10 min (Presentation)

View: [1.7.1. Presentation Guidelines Slide](#)

Today, you will work with your group to prepare a “Pitch” presentation. This is your chance to communicate your solution to your client and convince them that it solves the problem. Your presentation will be 2- 3 min long with 2 min to answer questions.

Your Pitch Presentation should include the following:

Explain the problem:

- Who is the client?
- Problem statement
- Problem requirements (can include those you considered, and final requirements)

Detailed description of your solution:

- Describe the mechanism and function of this solution.
- Pictures of your prototypes
- Final solution with components labeled.
- List the function each component serves.
- Share prototype testing sensor data.

Describe how this solution meets the clients needs:

- Refer back to clients’ needs and the problem requirements.
- Explain how this solution addresses the problem.
- Explain how this solution is better than existing solutions
- Leave them with a final thought you want them to remember about your solution.

Explore: 40 min (Group)

Teacher Note: *The students will work on creating their presentation. Teachers circulate around and help students as needed.*

Student Handouts:

N/A

Student Materials:

N/A

Instructional PPT's & Materials:

[1.7.1. Presentation Guidelines Slide](#)

Teacher Resources:

N/A

Web Resources:

N/A