

Unit 6 Final Project

Learning Targets

Essential Questions

- Why do a final project?
- What can the final project be about?

Key takeaways

- The final project is a chance for students to put all the IoT ideas together in a new and interesting way.
- Not all projects will necessarily be successful on the first attempt and that is alright.
- Students should be creative and attempt a project that interests them.

Teaching Tips

Having a variety of additional FeatherWing boards available will allow students to explore deeper and make more meaningful connections.

- FeatherWing displays?
- Ethernet FeatherWing?
- FeatherWing Power Relay?
- FeatherWing Latching/ Non-Latching Mini Relay?
- FeatherWing IR Thermal Camera?
- FeatherWing DC + Stepper Motor Controller?

Students should be encouraged to spend time choosing a project and planning before blindly charging forward.

Students should be prepared to answer questions as they demonstrate their final projects. Why did they choose the protocol that they chose? Etc.

Encourage students to consider power requirements. Can they run their IoT device on battery power?

Encourage students to consider security implications of their devices.

The following files are provided as a starting point:

- Final Project Guidelines
- Final Project Proposal Form
- Final Project Daily Log Form
- Final Project Summary Form
- Final Project Rubric and Scoring Sheet