# SOLAR EDUCATION IN PHILLY

# FIELD SITE: PHILADELPHIA SOLAR ENERGY ASSOCIATION

# BY: NATASHAFACULTY ADVISOR:FIELD SUPERVISOR:RING '26DON BARBERLIZ ROBINSON



#### WHAT IS PHILADELPHIA SOLAR

# **ENERGY ASSOCIATION?**

Philadelphia Solar Energy Association is a nonprofit founded in 1980 with the goal of promoting solar energy across the state of Pennsylvania.

#### DESIGNING

SOLAR KITS

Worked with PSEA, Drexel students, and Drexel Engineering Department faculty to design a kit for middle school classrooms utilizing old solar panels

#### RESEARCHING

### **EXISTING CURRICULA**

- Develop a list of 9 existing solar curricula and 10 solar education kits targeting middle school science classes
- Analyze each kit and curricula for content,

#### LEARNING LEARNING OBJECTIVE 1

The student will be able to identify changes in Pennsylvania Science Standards



The student will be able to develop lesson plans that adhere to the new state science sustainability standard.



The student will be able to assist in teacher development trainings for new science curriculum.



- replicability, and focus on hands-on learning
- work with a Drexel student to provide list of top 3 curricula

#### DEVELOPING LESSONS USING SOLAR KITS

- compiled list and short descriptions of all STEELS Technology & Engineering Standards for grades 3-5 and 6-8 and all 6-8 grade Sustainability Standards
- Began drafting lesson plans aligning with STEELS 3-5 grade Technology & Engineering Standards





#### **OBJECTIVE 4**

The student will be able to compare changes in teaching practices outlined in the new standards to best practices described in course readings.

# WHAT ARE THE NEW STEELS STANDARDS?

- Stands for: Science, Technology & Engineering, Environmental Literacy and Sustainability
- Every public school district in PA has to adopt curriculum aligning with the standards by July 1

## ACKNOWLEDGEMENTS

I want to thank Tiffany Stahl for connecting me with Liz and PSEA, Liz Robinson for supervising me throughout this project, Don Barber for stepping in as my faculty advisor, and Liv Raddatz for supervising me throughout this project.