



# SparkAlpha

## Explore

## Program Introduction

Produced by

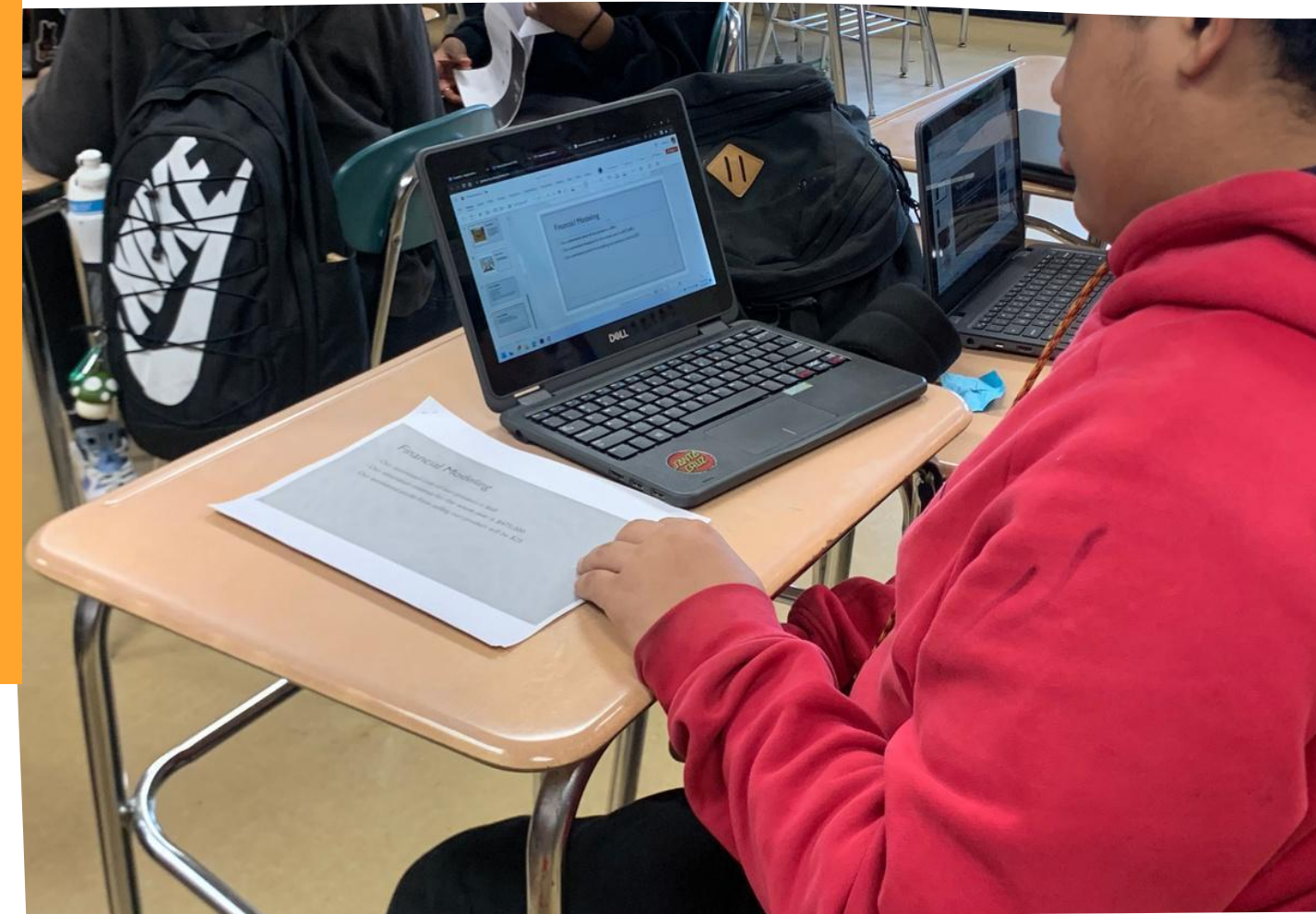
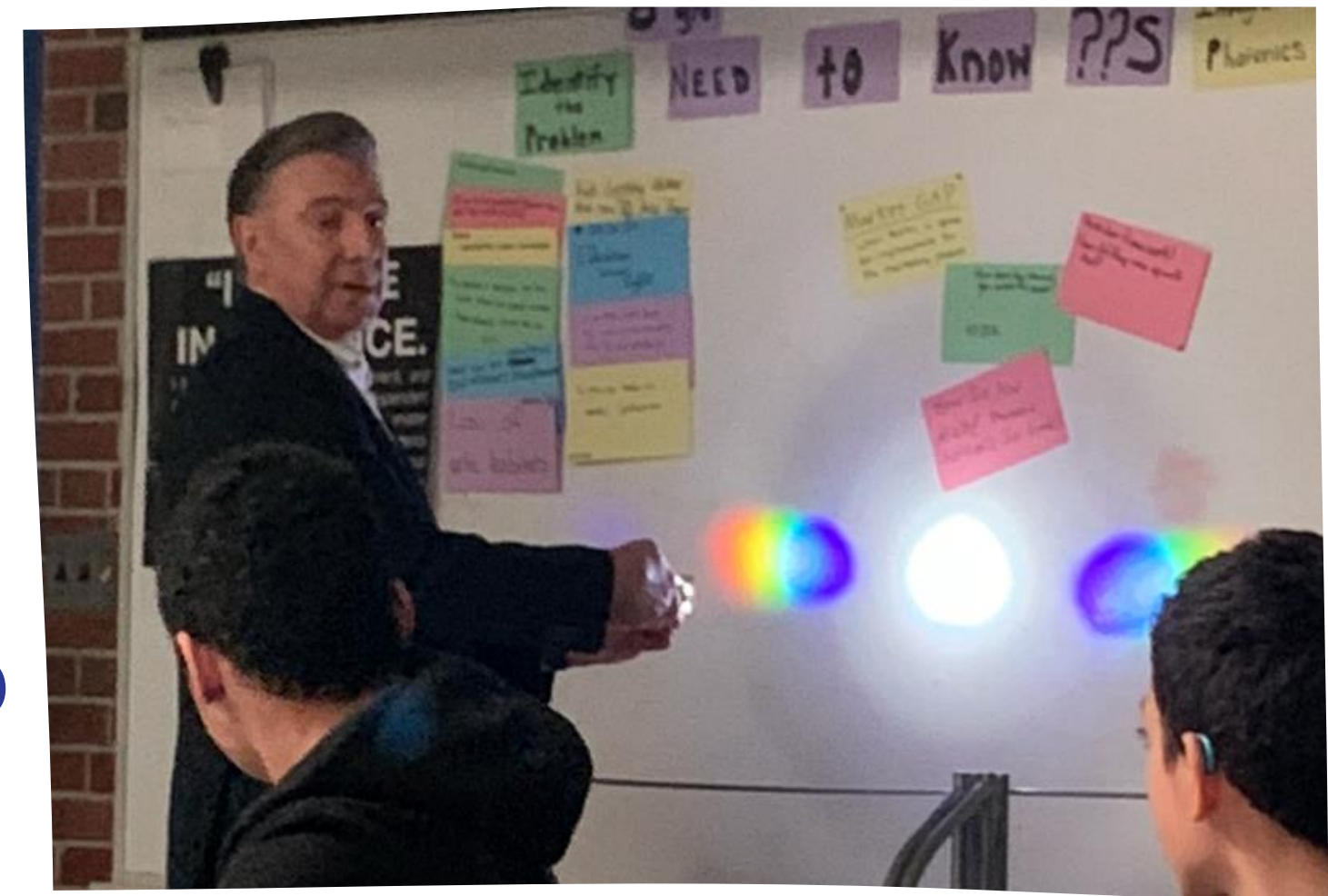


## Introduction

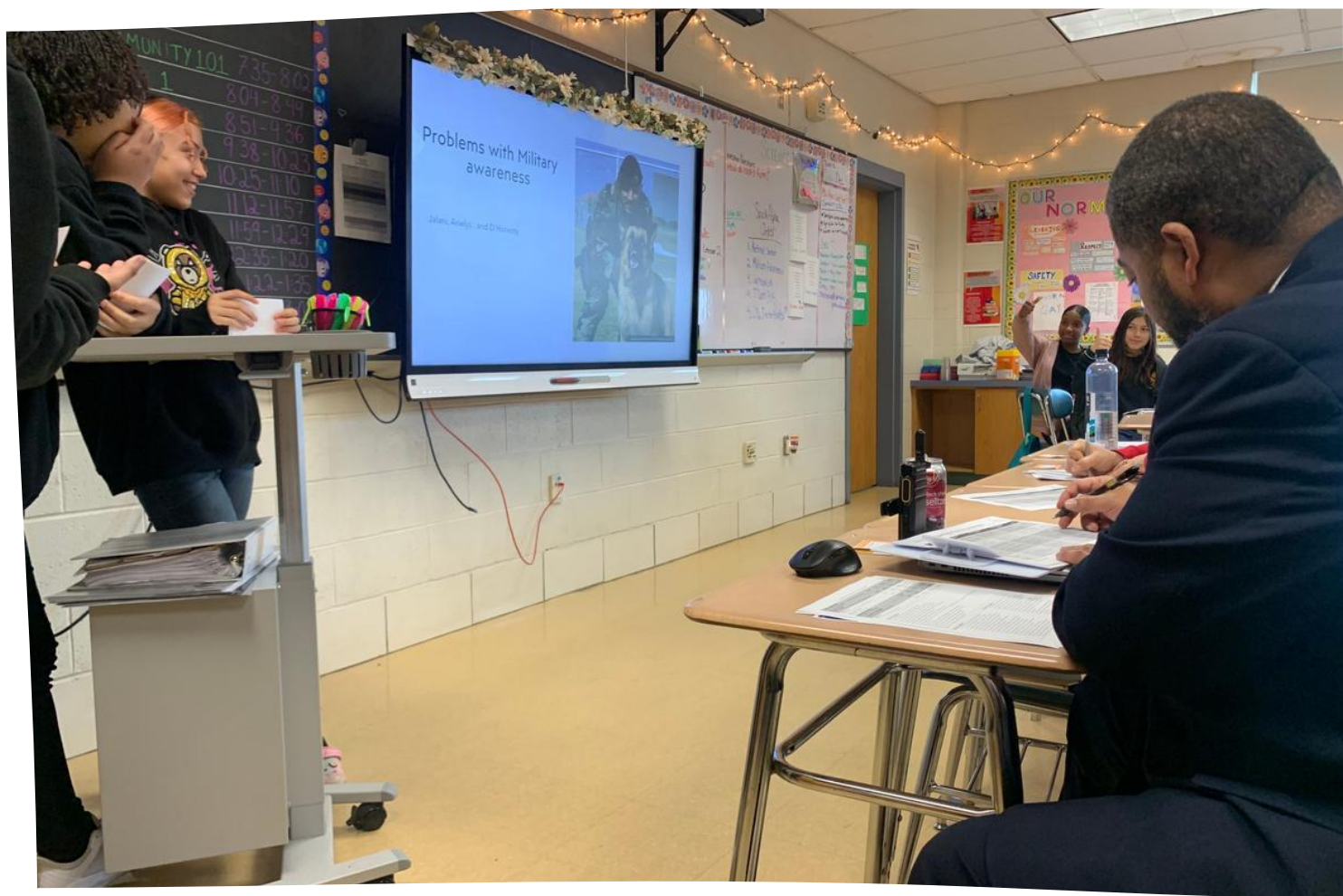
# What is SparkAlpha *Explore*?



SparkAlpha Explore is a unique project-based learning awareness program that introduces students to the worlds of photonics, semiconductors, advanced manufacturing, and entrepreneurship. Through a collaborative project, students conceptualize innovative integrated photonics devices designed to address real-world challenges.

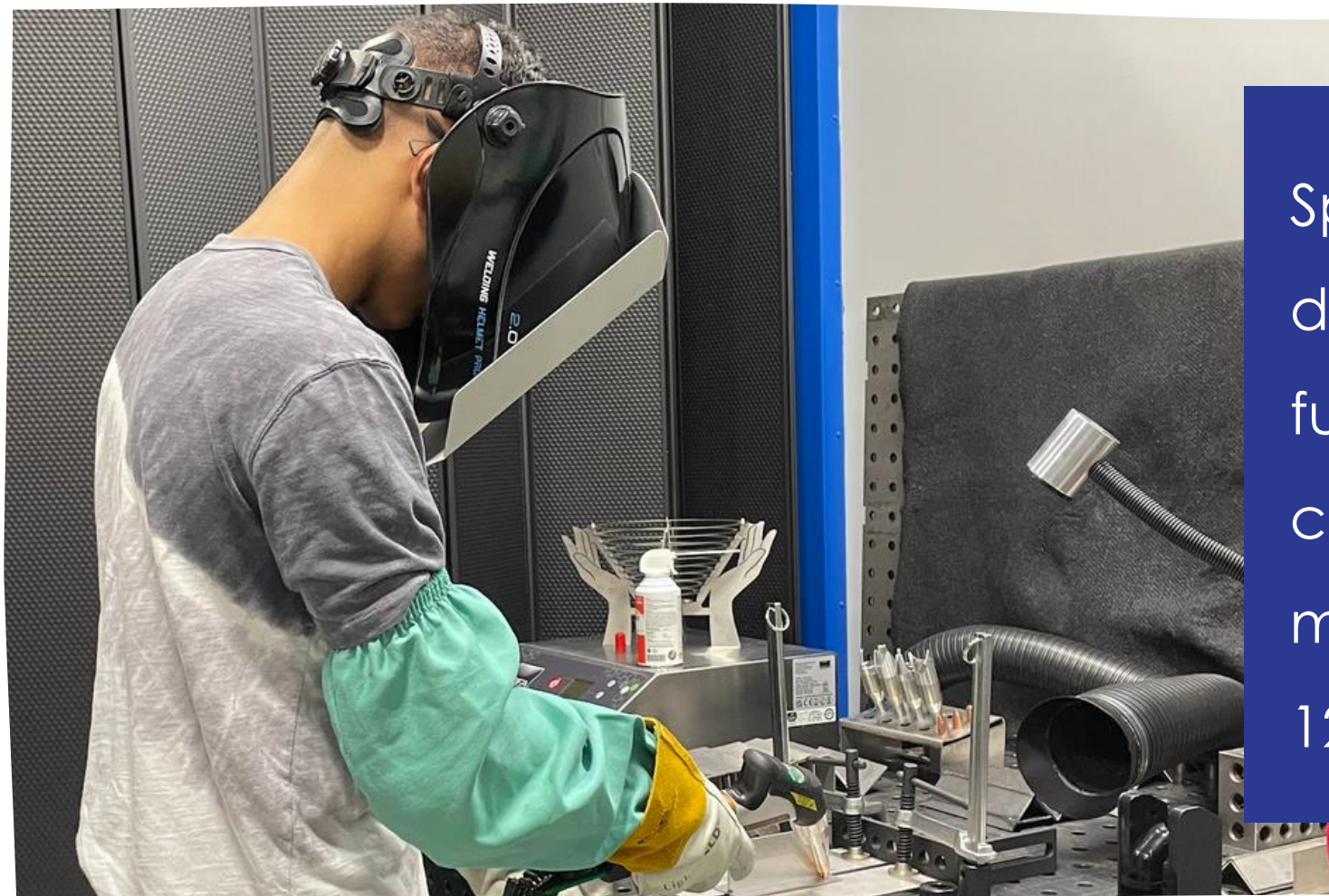






## Introduction

# Why SparkAlpha *Explore?*



Spark Photonics Foundation aims to cultivate a skilled and diverse workforce ready to tackle the challenges of the future. SparkAlpha Explore exists to introduce students to concepts in photonics, semiconductors, advanced manufacturing, and entrepreneurship during their time in K-12 education.



# Program Overview

## Teacher Training

Our self-paced training modules seamlessly integrate with the teacher's schedule, making program adoption simple and convenient.

## Community of Practice

Our digital portal provides access to program resources, training, discussion boards, updates from the Foundation, and more to all users.



## Leveled Workbook & Resources

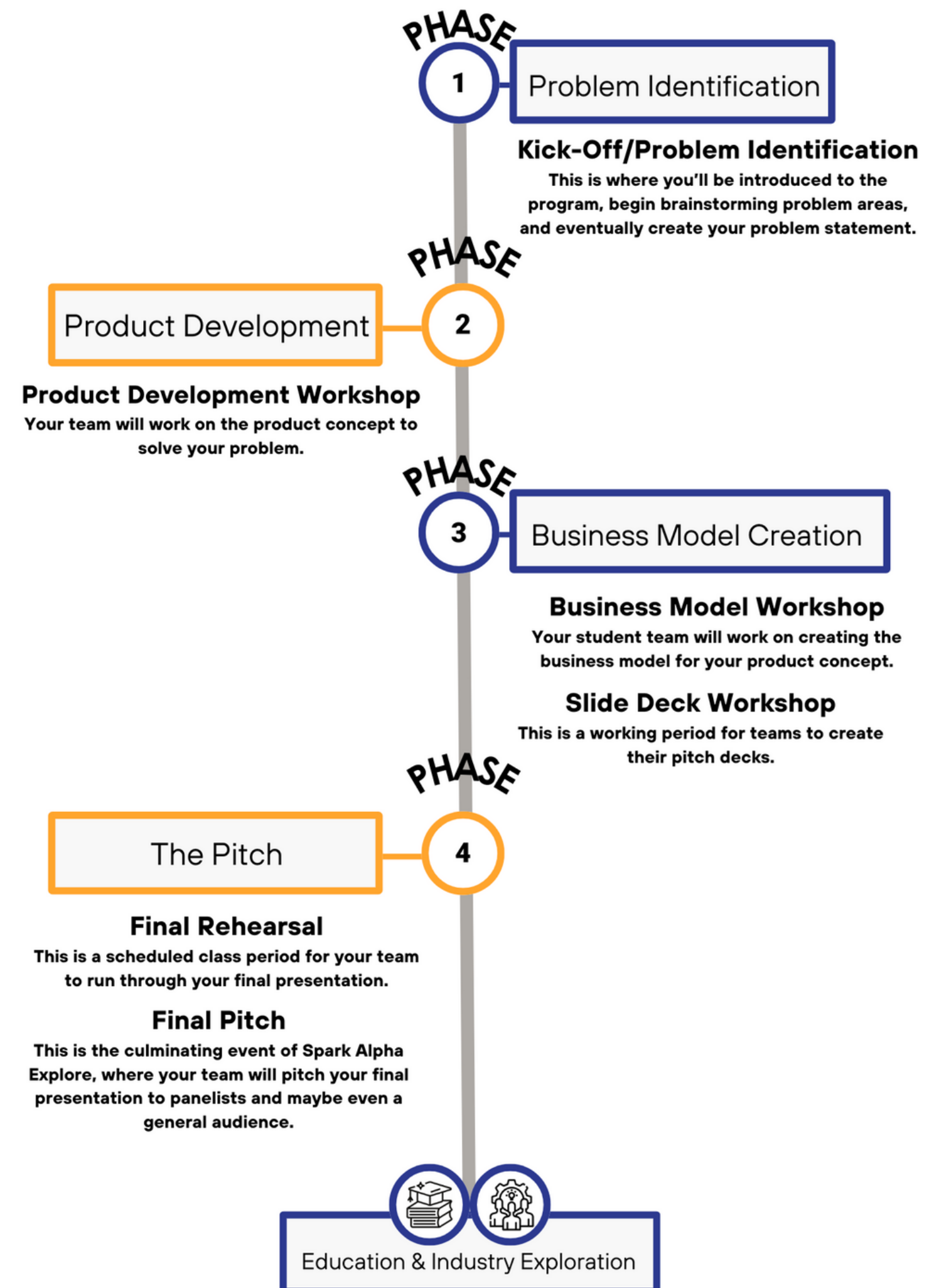
Our rich array of activities empowers teachers to customize instruction to meet the needs of every student.

## Education & Industry Exploration

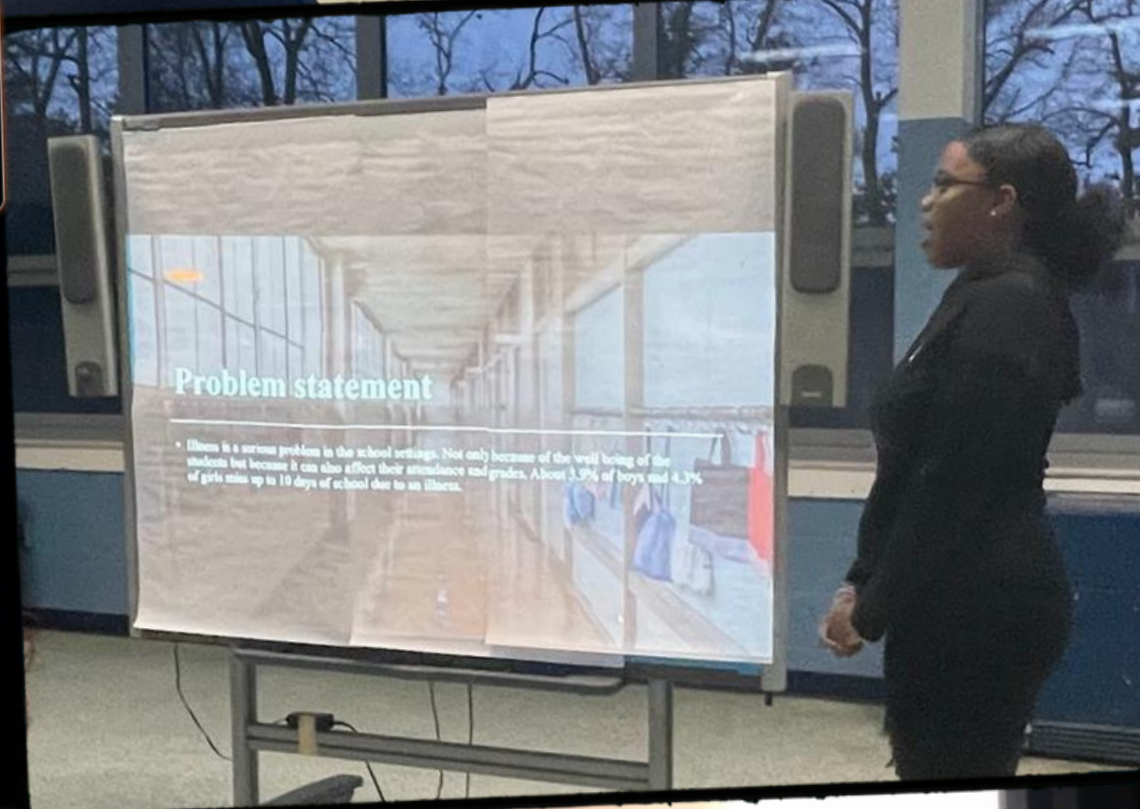
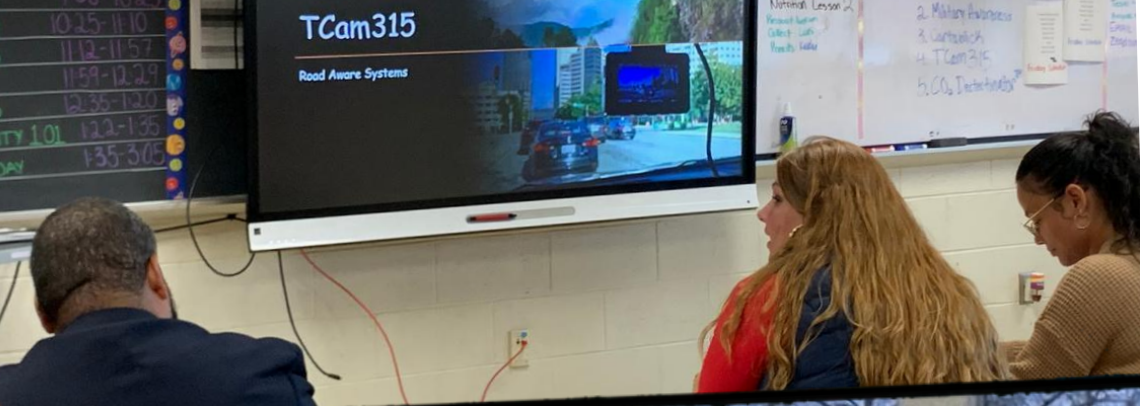
A choice between immersive field trips with industry and education partners or using our growing library of resources to expose students to pathways in STEM.



# Project Timeline







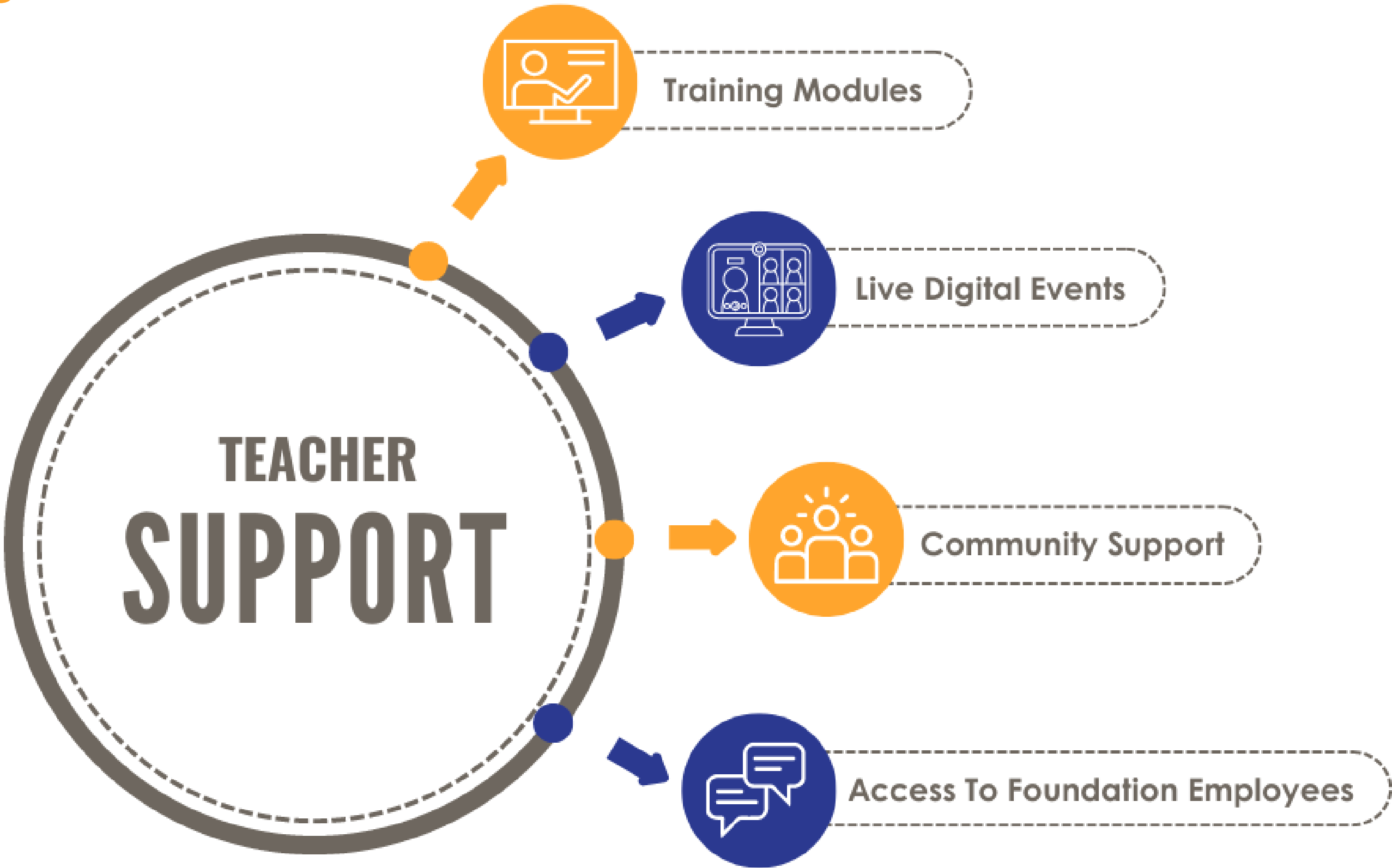
## Project Resources

- Student workbook
- Teacher workbooks
- Multimedia presentations
- Additional resources





# Training Overview




# Community of Practice Overview

## Program Training

Live Help & Access To Foundation Employees

Connection to Other Explore Teachers

Abundant Resources



C

+

Home

Members

Events

Courses

Information & Community...

+

Say Hello

1

SparkAlpha Explore Educator Traini...

Get Help With SparkAlpha Explore

SparkBeta Resources

Hear From Industry and Education...

Newsletter

Share Your Success and Ideas ...

Latest

New post

SparkAlpha explore

Our Community's Ideas & Successes

Grades 9-14

SPARK PHOTONICS FOUNDATION

Start a post

Phase #1: Kickstart & Problem Identification

Spark Photonics Foundation

Oct 4, 2023

Did you just complete SparkAlpha Explore's Kickoff lesson?

Share your ideas, stories, teacher-made resources, or successes in this group discussion.



SPARK PHOTONICS FOUNDATION

Welcome!

SparkAlpha Resources, Grade...

Latest

New post

Project Resources for 9-14

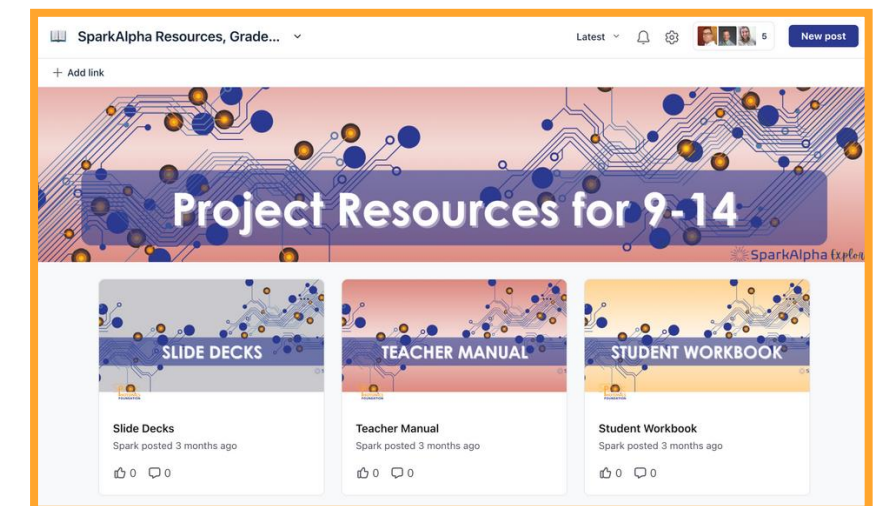
SLIDE DECKS

TEACHER MANUAL

STUDENT WORKBOOK



Thank you!



Contact us:  
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