



TAF@SAGHALIE

STEM EXPO 2020

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Student Handbook

TAF



2019-2020 STEM EXPO Student Handbook

The purpose of this handbook is to provide students at TAF@Saghalie with the necessary resources to complete their annual STEM Expo project. STEM EXPO is TAF@Saghalie's annual school-wide exhibition showcasing over 200 student projects in a wide range of STEM fields. Local STEM experts and professionals in the field judge projects onsite for awards.

All of the materials in this handbook are included as a guide for a complete STEM Expo project, however, some materials may be altered by teachers, depending on the subject or grade level. Deadlines and deliverables are clearly marked to make sure students are prepared and ready for presentations at the STEM Expo showcase.

School-Wide Deliverables:

- *Friday, December 6* - Topic & Problem Statement Due
- *Thursday, December 19* - Driving Question & Chosen Viable Solution Due
- *Wednesday, January 22* - Project Proposal Presentations all complete
- *Friday, February 7* - Completed Data Tables Due
- *Friday, February 14* - Data Analysis Due
- *Saturday, February 29*- STEM Expo

1. [What is STEM Expo?](#)
2. [Process and Timeline](#)
 - a. [Process](#)
 - b. [Calendar](#)
3. [STEM Expo in Action](#)
 - a. [Phase 1: Identify a Problem](#)
 - b. [Phase 2: Research & Explore Solutions](#)
 - c. [Phase 3: Develop a Solution & Write Driving Question](#) (present proposal)
 - d. [Phase 4: Test Solution & Collect Data](#)
 - e. [Phase 5: Analyze Data](#)
 - f. [Phase 6: Draw Conclusions & Communicate Results](#)
4. [Resources](#)

For a digital version of this handbook, go to:

[**http://bit.ly/STEMExpoStudentHandbook**](http://bit.ly/STEMExpoStudentHandbook)

WHAT IS STEM EXPO?

STEM Expo is an annual school-wide event which showcases individual and group projects focused on various STEM topics that seek to find viable solutions to authentic community issues and problems. Students address real world problems using the engineering design cycle or the scientific investigative process. Teams present their projects to local STEM experts and demonstrate how their research has authentic applications and connections related to solving larger community issues or needs. ***This event allows family, community members, and industry professionals a close view of the amazing things you are all capable of!***

STEM Expo seeks to foster your creativity and innovation so that you can solve relevant community issues with authentic solutions. The goal is for you to find a project that is particularly meaningful to you. Some specific goals of STEM Expo are:

- Increase your interest through project choice
- Prepare you for Senior Experience and projects in college and beyond
- Allow you to visualize how STEM can be used in creative and innovative ways

PROCESS AND TIMELINE

a. Process

