

Science and Engineering Fair Curriculum Checklist

INTRODUCTION

ASSIGNMENT AND TIMELINE

PACING GUIDE

GENERAL FILES:

- How To Write an Abstract
- Risk Assessment Matrix
- Risk Assessment Form
- SEFH Scoring Sheet for Individual and Team Projects
- Oral Presentation Rubric
- Peer Evaluation Form for Group Work
- Project Proposal Guidelines (Simplified)
- Engineering Drawing Components

LESSON PLANS:

- Lesson 1: Comparing Science and Engineering
- Lesson 2: Scientific Method vs. Engineering Design Process

Comparing SM and EDP Graphic Organizer

How to read a nutritional label hand-out

Cereal Slayer Worksheet

- Lesson 3: Science and Engineering Practices

Science and Engineering Practices Worksheet

Science and Engineering Practices Answer Key

- Lesson 4: Starting Point For Scientists

Research Topic Approval Form

Experimental Design Diagram

SEFH 1B Approval Form

- Lesson 5: Starting Point for Engineers

Choosing An Engineering Project Decision Matrix

Project Approval Form

- Lesson 6: The Engineering Notebook

- Lesson 7: Engineering Design – Defining A Problem

- Lesson 8: The Engineering Design Process

The Design Process Graphic Organizer

- Lesson 9: Brainstorming

Brainstorming Graphic Organizer

- Lesson 10: Exploring the Engineering Design Process: Design A Bridge Project

Design Challenge Evaluation Rubric

- Lesson 11- Bibliography

Sample Bibliographic Formats

- Lesson 12 – The Engineering Project Proposal (A Complete Guide)

Guidelines for Engineering Project Proposals (simplified)