

DVSF Workshop Descriptions*

2019-2020

Workshops are provided at no cost.

New Workshops just added!

*All workshops are modified to meet the needs of middle school students and teachers or high school students and teachers.

Scheduling a Workshop

If you have questions about our workshops or are ready to schedule a **FREE** workshop please contact Suzanne Mecouch, Director of Teacher and Student Development, DVSF, Inc. Contact Suzanne at suzannemecouch@gmail.com or by calling **610.909.5105** and leaving a message.

Most workshops run about 1 ½ hours but can be tailored to fit any time slot and/or your specific needs. Rooms with tables and internet access are best for most workshops. Workshops can be scheduled during or after school hours and/or evenings.

STEM – Science, Technology, Engineering and Mathematics

Newton, Archimedes, Bell, Galileo, Curie – did these historical figures know they were “doing” **STEM**????

Why is a **STEM** education critical for those not pursuing a **STEM** career? This workshop is designed specifically for teachers to help them recognize **STEM** in its various forms and to understand how student science research is a way for students to apply their knowledge and skills to a relevant topic.

Getting Started with Science Fair

This introductory workshop focuses on helping both teachers and students understand inquiry and its application to student science research (aka Science Fair). Through a hands-on inquiry experience, participants will recognize the components of science research: Choosing a topic, literature research, procedural set-up, data collection and analysis, writing a conclusion and project display.

This workshop can be tailored to middle or high school students or teachers.

Take It Up a Notch!! – Moving Projects to the Next Level

This workshop is designed for students who are motivated and already have experience doing science research. Participants will receive information on choosing a topic, using a mentor, setting up a project for statistical analysis, and appealing to judges. In addition, formats for presenting mathematical, technological or engineering projects will be reviewed.

How to Ask a Testable Question

Writing a testable, investigable question is the first and most difficult piece of any science research. This workshop is highly recommended for students new to science research. Students will write questions based on observations of simple phenomena. Then, with guidance, they will then see how the questions they’ve asked are or are not testable. Subsequently, students will practice writing testable questions relating to their own research ideas.

This workshop can be modified for a teacher only audience. Participants would acquire the skills necessary and a lesson plan for helping students write testable questions.

Analyzing Data through Statistics and Graph Analysis

This workshop will provide teachers or students with an overview of statistical tests used to analyze various types of data and subsequently form conclusions. This workshop will be geared to either middle school students as a basic introduction to analyzing data or to high school students with a more in-depth focus on statistical analyses.

Writing the Conclusion *NEW!*

This workshop will provide teachers and/or students with a guide for writing conclusions based on evidence. Participants will review sample conclusions and practice writing a conclusion from provided data.

Writing the Abstract *NEW!*

This workshop will provide teachers and/or students with a guide for writing abstracts. Participants will review sample abstracts and practice writing an abstract as a whole group.

Presenting a Project - Putting Your Best Foot Forward!

This workshop is designed to help both teachers and students recognize the characteristics of quality visual & verbal presentations of their research. Participants will “review” actual projects using basic judging criteria. It is best scheduled between December and March – prior to local fairs.

Judging – What to Expect? *NEW!*

Participants will hear a general overview of what judges look for in a project. But more importantly, they will be given “mock-judging” questions and volunteer participants will practice before the whole group in answering them and receiving feed-back based on their individual project.

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