

STEM Fair Planning Guide

Headings

ASK A QUESTION or DEFINE THE PROBLEM

BACKGROUND RESEARCH

Identifying Variables

Focusing in on my Testable Question (Refining my beginning Wondering)

NOW, write the question or problem that will guide your experiment or investigation:

Based on prior knowledge and research, what do you already know about this?

Predictions

(Note: List 3 possible outcomes: *Increase, Decrease, and No Affect.*)

CONSTRUCTING A HYPOTHESIS SPECIFYING REQUIREMENTS

Setting up the Procedure

TESTING with an EXPERIMENT DEVELOPING A PROTOTYPE

Setting Up the Experiment or Investigation

What steps will I use to carry out my investigation? It is very important that the steps in designing your investigation are recorded precisely so another student can replicate the investigation.

Carrying Out the TESTING of the Experiment DEVELOPING a Prototype and Testing it

Abstract

DRAWING CONCLUSIONS and COMMUNICATING RESULTS IMPROVE – What happened when the prototype was tested?