GENERAL SCIENCE TOOLKIT

Scientific Inquiry Organizer

BLM G-5

CLASS:

Goal • Understand and follow the steps in a science investigation.

Introduction

When investigating a science inquiry, scientists follow a systematic procedure. When orderly steps are taken, an investigator can outline precisely how an inquiry's conclusions have been reached.

What to Do

• Use this outline to help you organize your notes on a science inquiry you conduct by yourself.

communicate results

Outline Topic:

	observations and curiosity stimulate questions	
	+	
	identify the problem	
	+	
	gather information	
	\	
	form a hypothesis or make a prediction	
	\	
Ĺ	perform an experimer investigation	nt/
revise prediction or hypothesis	analyze data	repeat several times
	draw conclusions	
prediction or hy not suppo		on or hypothesis upported

Ask questions about topic of interest.
• What interests me is
• What I want to learn about this topic is
The problem I can explore is
• Where I can look for more information is
How I can explore this problem further is by
(Experiment? Interviews? Research?
• The hypothesis for this inquiry is
• The equipment and materials I will need to include
• I will record my findings by
(Notes? Graphs? Tables? Charts?)
• When I will review my inquiry design:
When I might revise my hypothesis:
Why I might change my design:
How I might adjust my design:
• How I can pace my work to meet due dates:
How I will communicate my findings:
(Write-up? Oral presentation? Model? Display?)