

Science -		
OMENA PACK	Name	Period

Conducting an Investigation

Use your notes from Developing an Explanation to plan and conduct an investigation.

Research Question:		
How does	affect	?
What evidence will you collect?		
Prediction What do you think you will observe?		

Investigation: Plan

How will you answer your research question? Will you use descriptive science or an experiment to plan and conduct your investigation? Complete the section for the type of investigation you will complete.

☐ I will do a descriptive investigation.	☐ I will do an experimental investigation.	
A hypothesis is not needed.	Hypothesis:	
Observable Variables: What will be observed, measured, and recorded	Independent Variable: What is changed in an investigation to test	
	Dependent Variable: What changes as a result of the independent variable	
	Control, Controlled Variable(s): What is unchanged or separate to verify a fair test is completed	
Conclusion: How the research question will be answered	Conclusion: How the research question will be answered	



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Investigation: Plan

Data

How will data will be collected, recorded, and organized?

Trials - How many trials will your investigation include?

Materials List

Which materials and tools will you need and how will you use them to make observations, measure variables, and test predictions, if applicable?

Safety

What safety practices will you need to follow? What safety equipment will you need to use and how do use each one?

Investigation: Procedure

What steps will you follow in this investigation?





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Investigation: Collect Data

Collect observations and measurements as evidence to complete a data table.

Investigation: Analyze Data

Choose one or more ways to analyze the data and results of the investigation. Identify any significant features, patterns, or sources of error.



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Investigation: Interpret Data

How does the evidence answer your research question? Identify limitations and advantages to any models used in the investigation.

Investigation: Conclusion

Was there enough data to support or refute the hypothesis, if applicable? Evaluate the design of the investigation.

Investigation: Explanation

Provide a claim with evidence.

