

### PRACTICE A: CUSTOM INVESTIGATION HANDOUT **Ecosystem Changes & Flow of Energy**

Name		Date	Period	
Your Custom Inves				
	ing this? To understand how cha and the flow of energy in a food w	•	is affect the	
Research Question:				
How does	affect	<del></del>	?	
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
١		



## PRACTICE A: CUSTOM INVESTIGATION HANDOUT **Ecosystem Changes & Flow of Energy**

Name	Period					
nvestigation: Plan, continued						
Data How will data will be collected, recorded, and organize	ed?					
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?





# PRACTICE A: CUSTOM INVESTIGATION HANDOUT Ecosystem Changes & Flow of Energy

Name	Date	Period
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.



#### PRACTICE A: CUSTOM INVESTIGATION HANDOUT **Ecosystem Changes & Flow of Energy**

Name	Date	Period
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

Return to the Digital Student Journal to complete the Investigation: Explanation and your claim with evidence.

