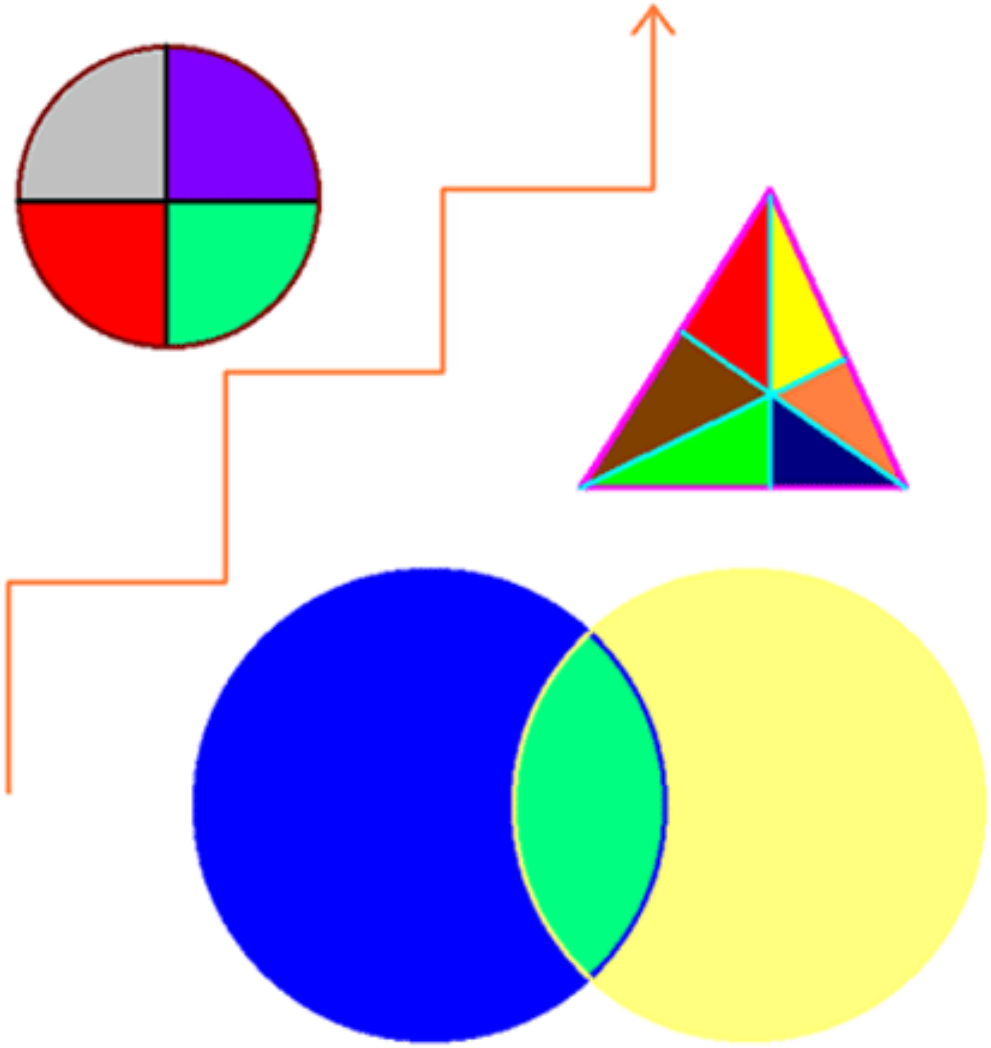
Teacher Workbooks

Graphic Organizer Series



Science Organizers
Volume 1

Teachnology Publishing Company

Teacher Workbooks

Graphic Organizer Series
Science Organizers
Vol. 1

For additional information, visit us at www.teach-nology.com/publishing

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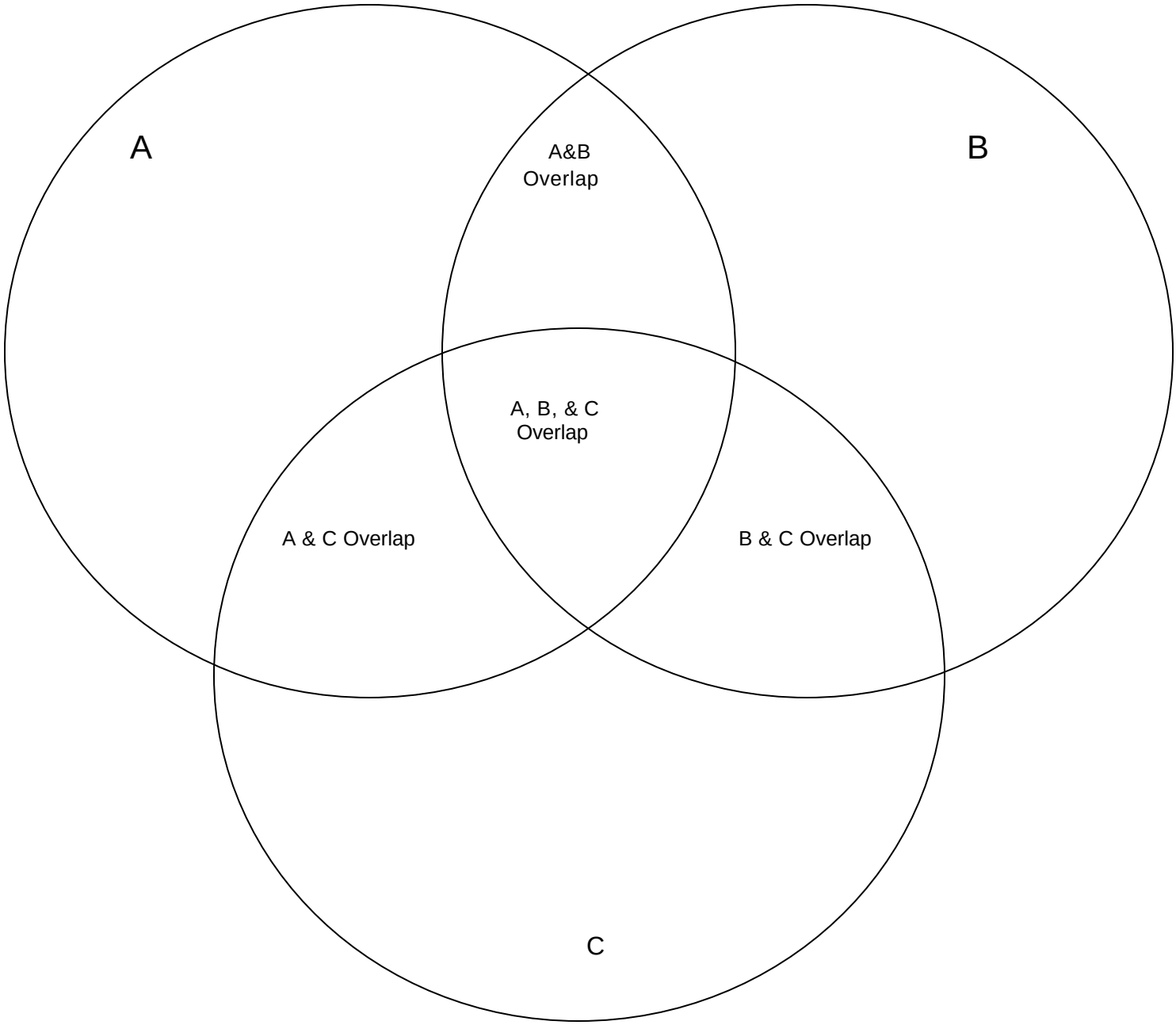
Three Circle Venn Diagram

Directions: Pick three topics to compare and list the individual characteristics for each topic in the circles that correspond with the topic. Show where the topics share common characteristics in the overlap sections.

Comparing: A. _____
B. _____
C._____



Name _____ Date _____

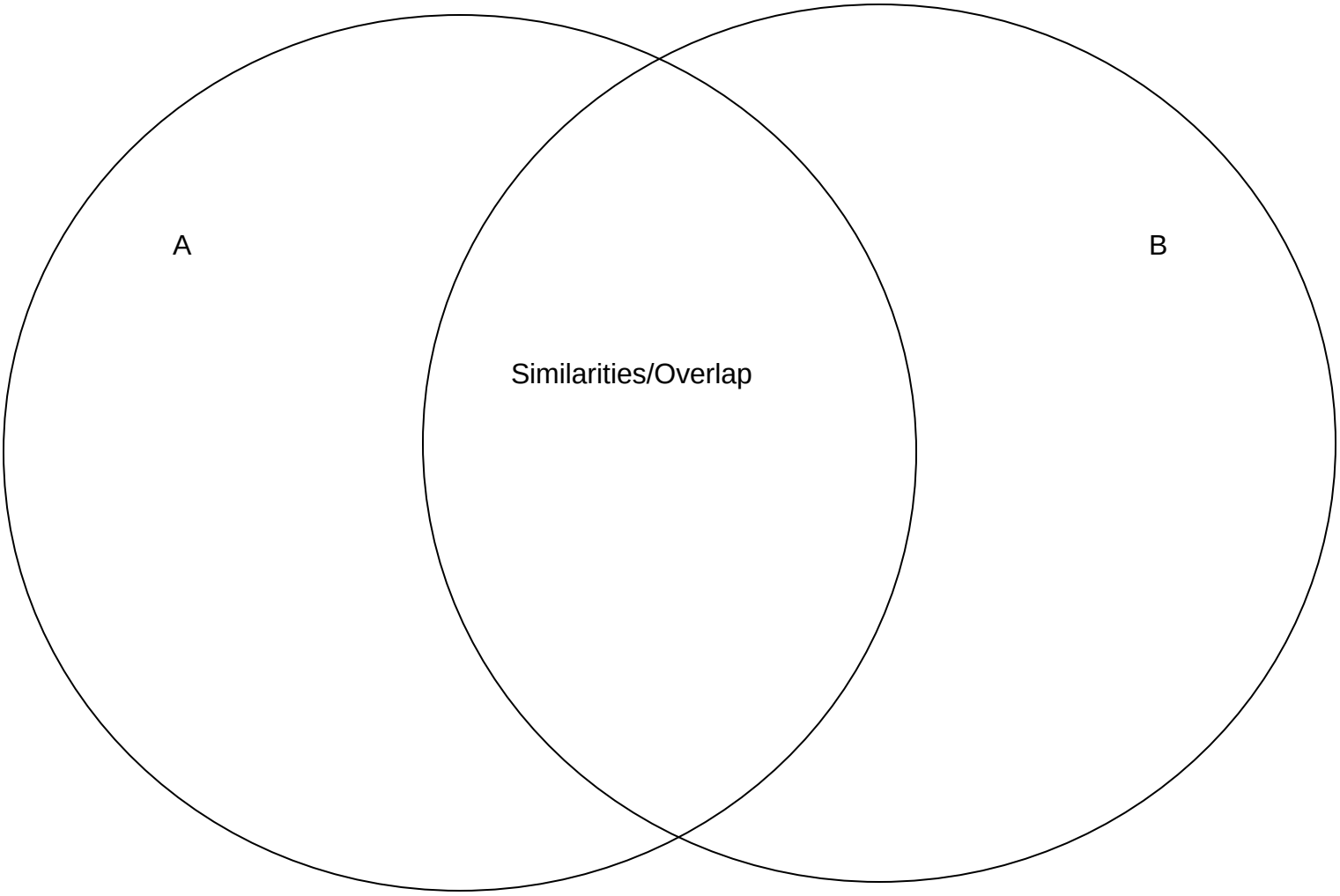
Venn Diagram

Directions: For each element related to the main topic, write the individual characteristics that describe the element in each circle with characteristics that are similar in the overlap section.

Main Topic: _____

A. Element or characteristic: _____

B. Element or characteristic: _____

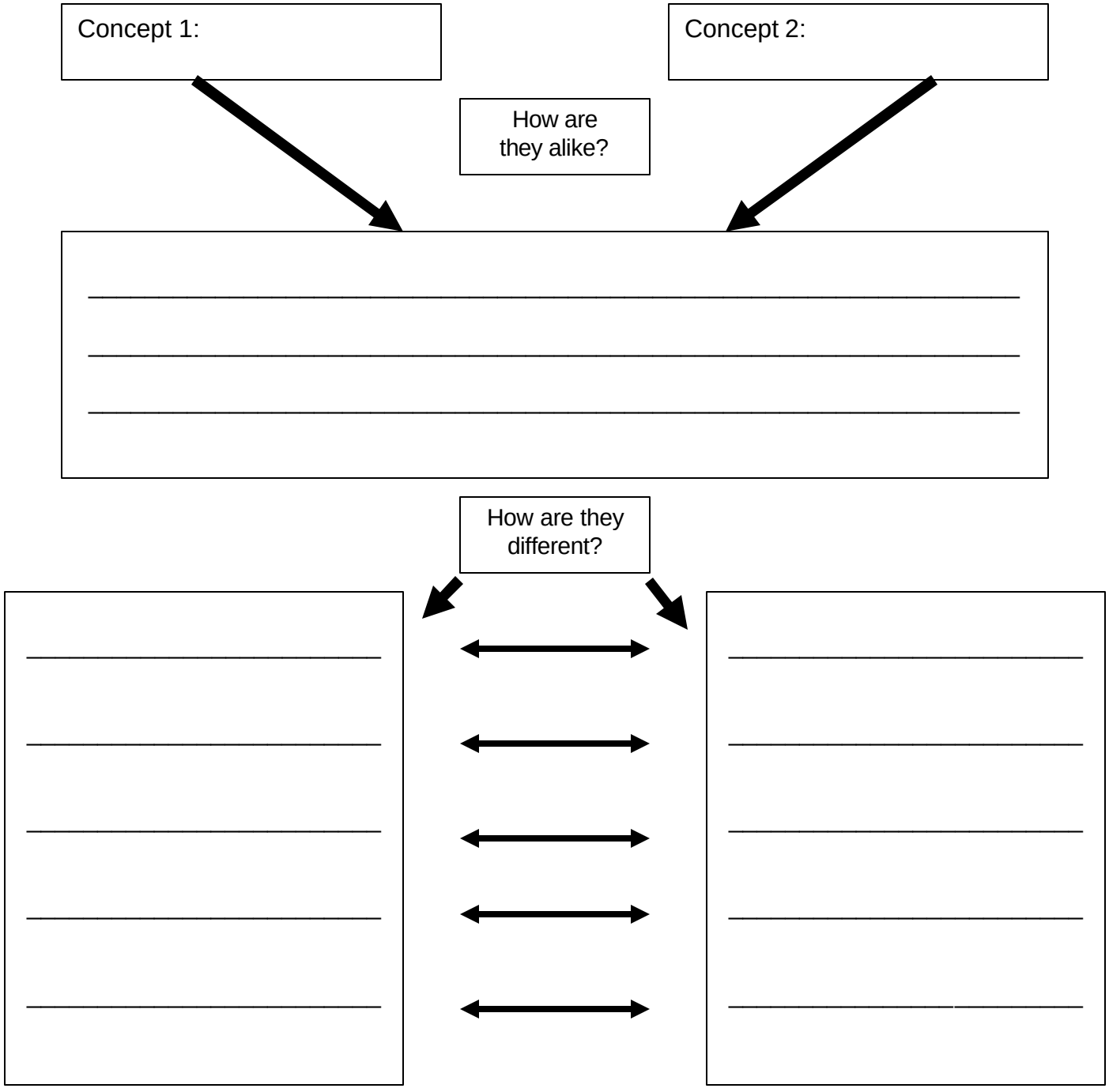


Name _____ Date _____

Comparing Concepts

Directions: Use this compare/contrast organizer to explore analogous as well as non-analogous characteristics of two concepts related to a given topic.

Topic: _____



Name _____ Date _____

Likenesses & Differences

Directions: Use this organizer to show the relationship between two concepts.

Concept 1:		Concept 2:
Different	Same	Different

Name _____ Date _____

Relationships

Directions: For each concept, write how they are related.

Concept 1:		Concept 2:
	⟷	
	⟷	
	⟷	
	⟷	
	⟷	
	⟷	

Name _____ Date _____

Comparing Scientists

Directions: Pick up to three but no less than two scientists to study. Complete each section.

Names	**Scientist 1**	**Scientist 2**	**Scientist 3**
Time period:			
Best known for:			
Where did they study?			
History/background:			
Major achievements:			
Other pertinent information:			

Name _____ Date _____

Comparison Chart

Directions: Make a list of concepts. List various characteristics across the top that can apply to any of the concepts you picked. Check the boxes that apply to each concept.

← Characteristics →

Concepts										

Name _____ Date _____

Controlled Experiment Organizer

Directions: Use this organizer as a guide to conduct a controlled experiment.

Title:	
Problem:	
Hypothesis:	
Procedure(s):	
Dependent Variable:	
Independent Variable:	
Control:	
Observation:	
Data:	
Conclusion:	

Name _____ Date _____

Division of Labor Chart

Direction: Use this chart to keep assignments organized.

Student	Role	Due Date(s)	Responsibilities

Name _____ Date _____

Sightseeing Organizer

Directions: Take a sightseeing walk and list all of the significant landforms, animals, plants, and forms of pollution you see on your trip.

Landforms	Animals	Plants	Pollution

Name _____ Date _____

Sorting Organizer

Directions: Use this organizer to keep track of sorting.

Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	
Total number of: _____	

Name _____ Date _____

Rock Hunting

Igneous Rock – This type of rock is formed by molten mixtures of minerals and gases found within the Earth's surface called magma. As the magma cools, igneous rock is formed.

Metamorphic Rock – This type of rock is igneous, sedimentary, or metamorphic rock that has been changed by heat, pressure, or permeation by other substances.

Sedimentary Rock – This type of rock is formed by materials that have been deposited by the action of gravity, water, and/or wind. Over time, the materials conform and harden.

Directions: Go on a rock hunt and collect as many different types of rocks as you can find in your area and classify the types of rock below.

Igneous	Metamorphic	Sedimentary

Name _____ Date _____

Science Project Organizer

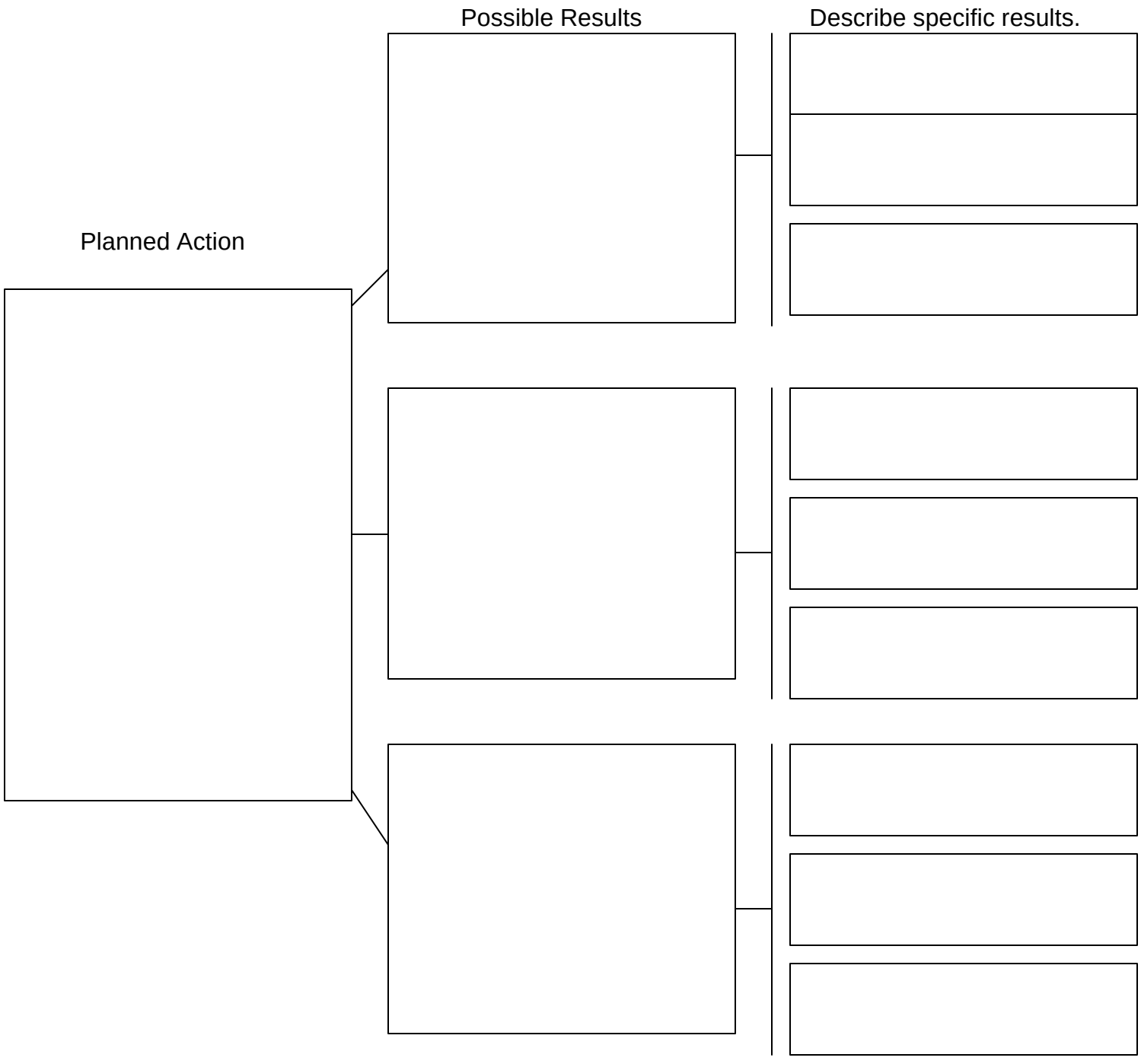
Directions: Use this organizer to keep track of a science project.

Project ideas:	Names of possible partners:	Start date: Complete date:
What will I need to complete project?		
Possible problems I might encounter:	What must my project achieve?	

Name _____ Date _____

Planning Chart

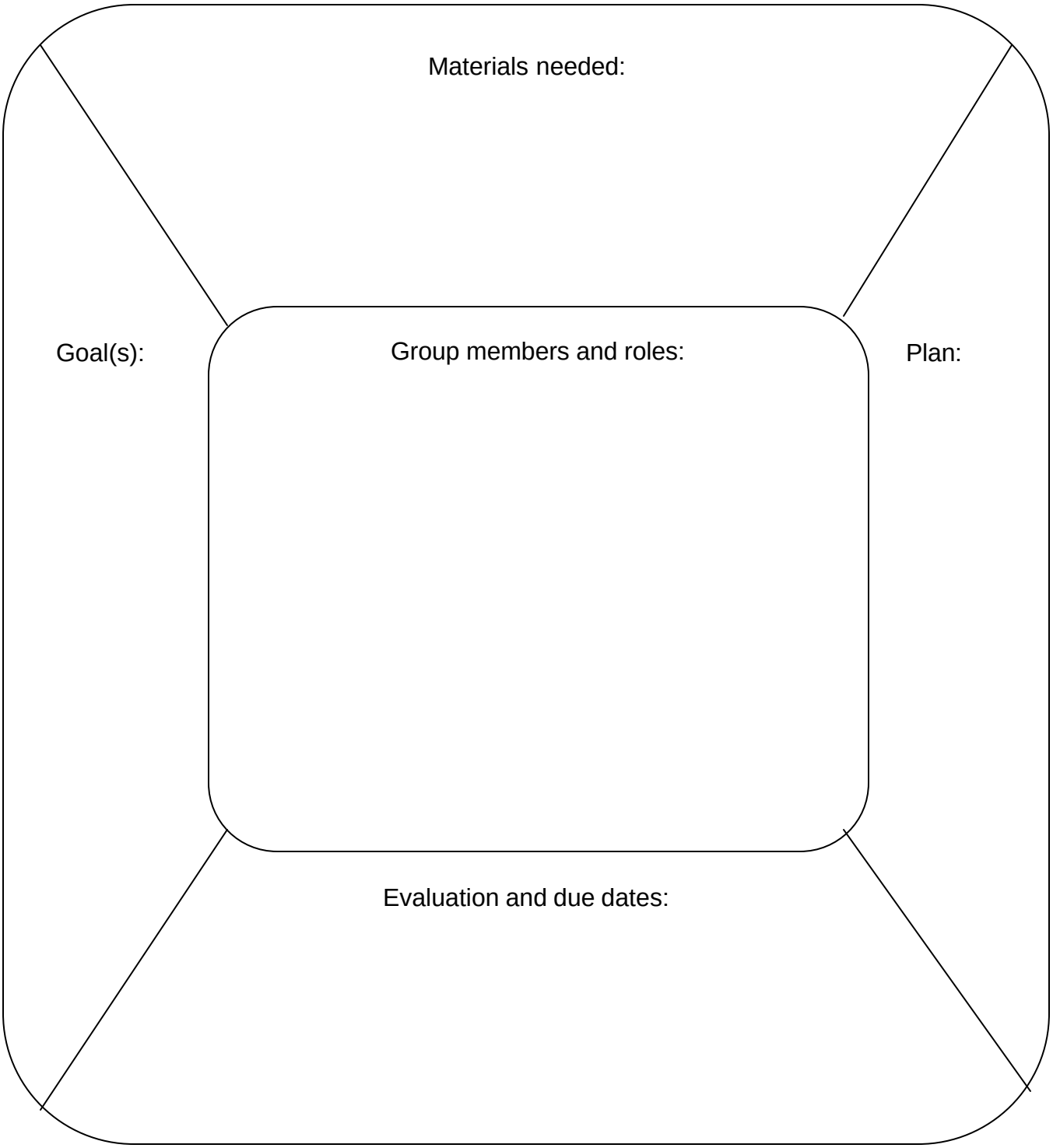
Directions: Use this organizer to show a sequence of events that result from a specific action that is planned. For each possible result, describe specific results that can occur.



Name _____ Date _____

Group Plan

Directions: Use this chart to help organize a cooperative learning activity.



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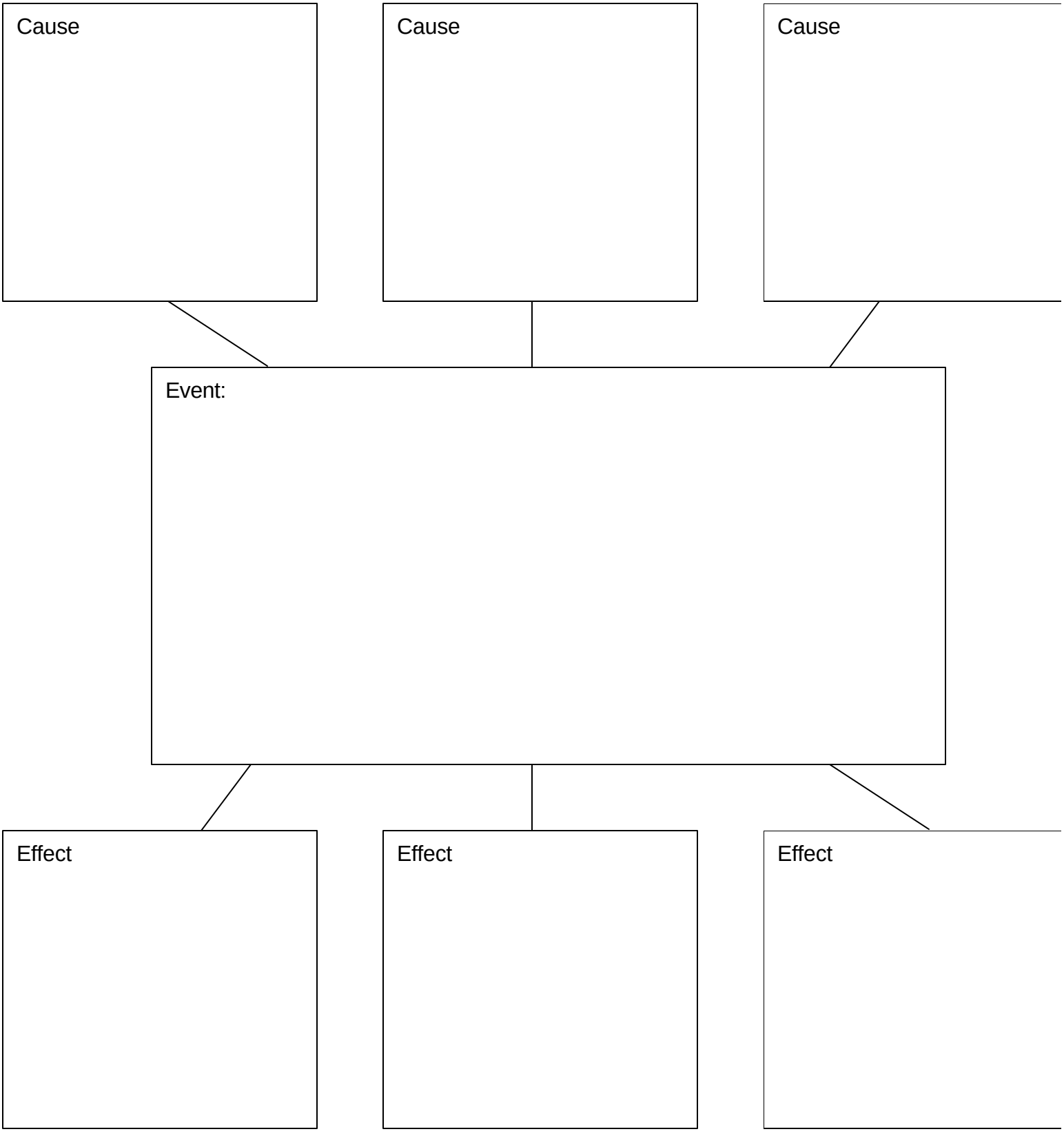
Cause & Effect

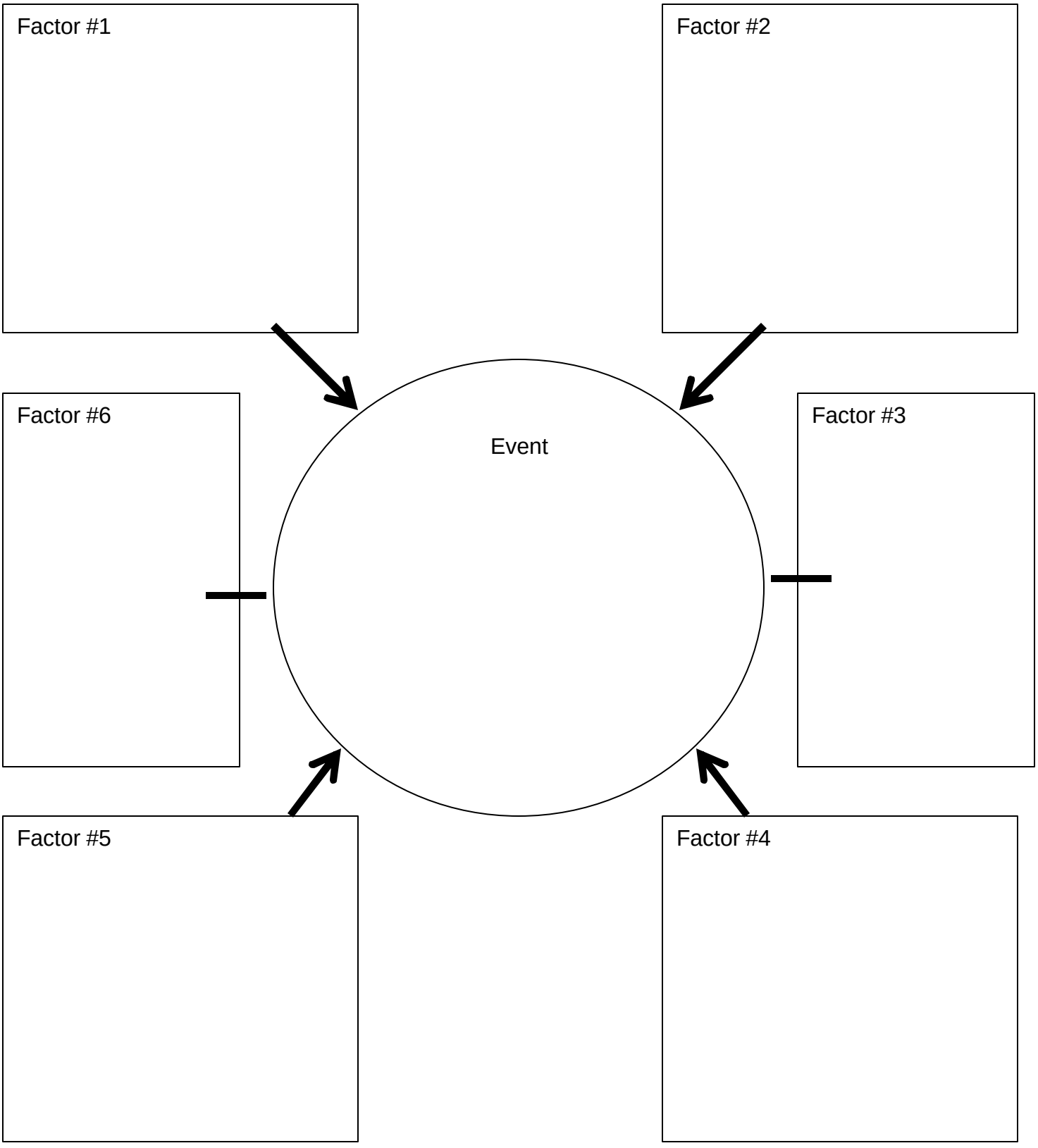
Directions: Pick an event to explore or investigate and describe the effects of that event in the appropriate boxes.



Name _____ Date _____

Factors in the Cause

Directions: Choose an event and describe the factors that caused the event in the appropriate boxes.



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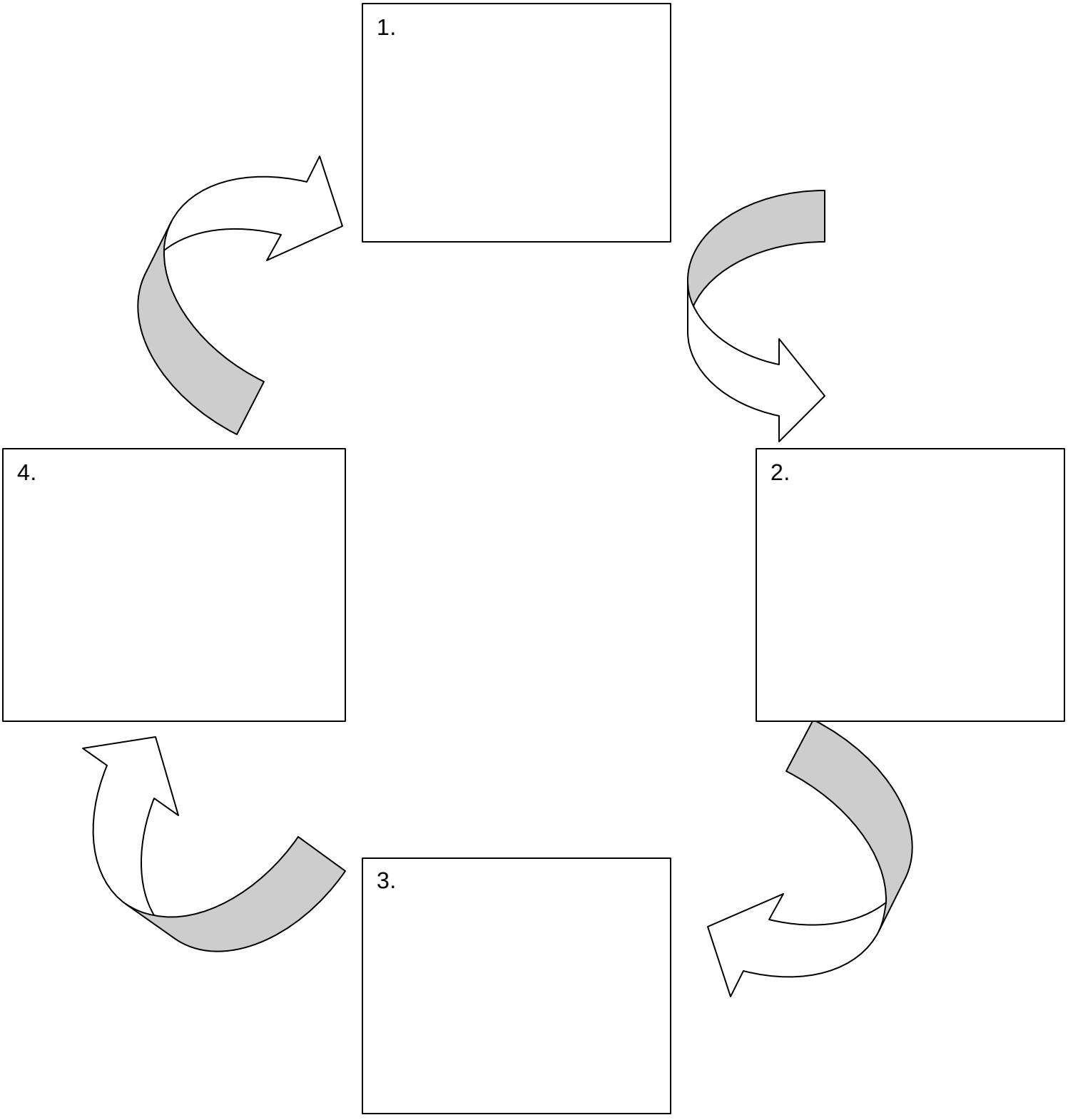
Four Stage Cycle

Directions: Use this sequential organizer to illustrate a step by progression that results in a full cycle.



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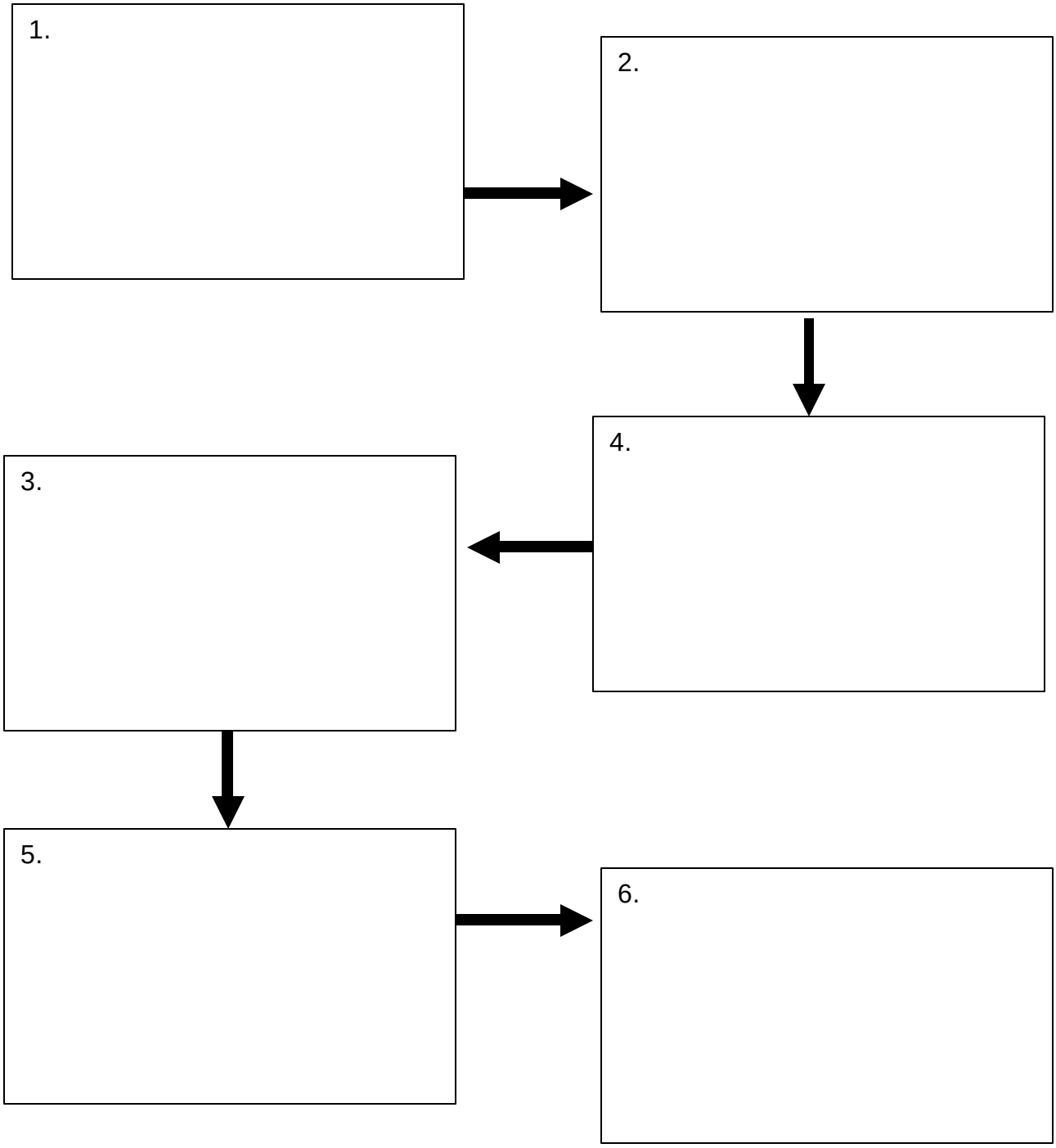
Six Stage Causal Chain

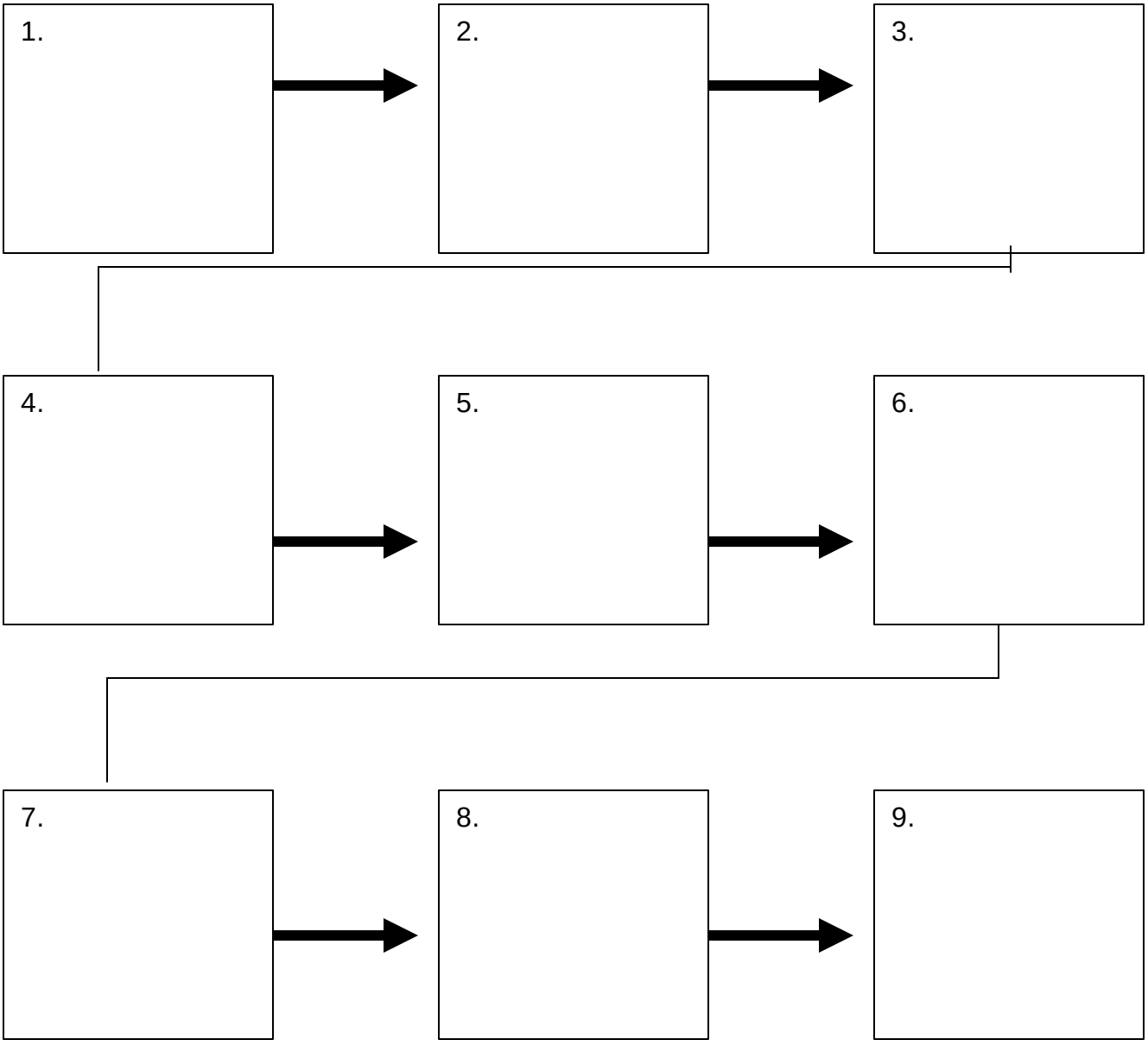
Directions: Use this organizer to illustrate a causal chain resulting in a final outcome.



Name _____ Date _____

Nine Stage Chain

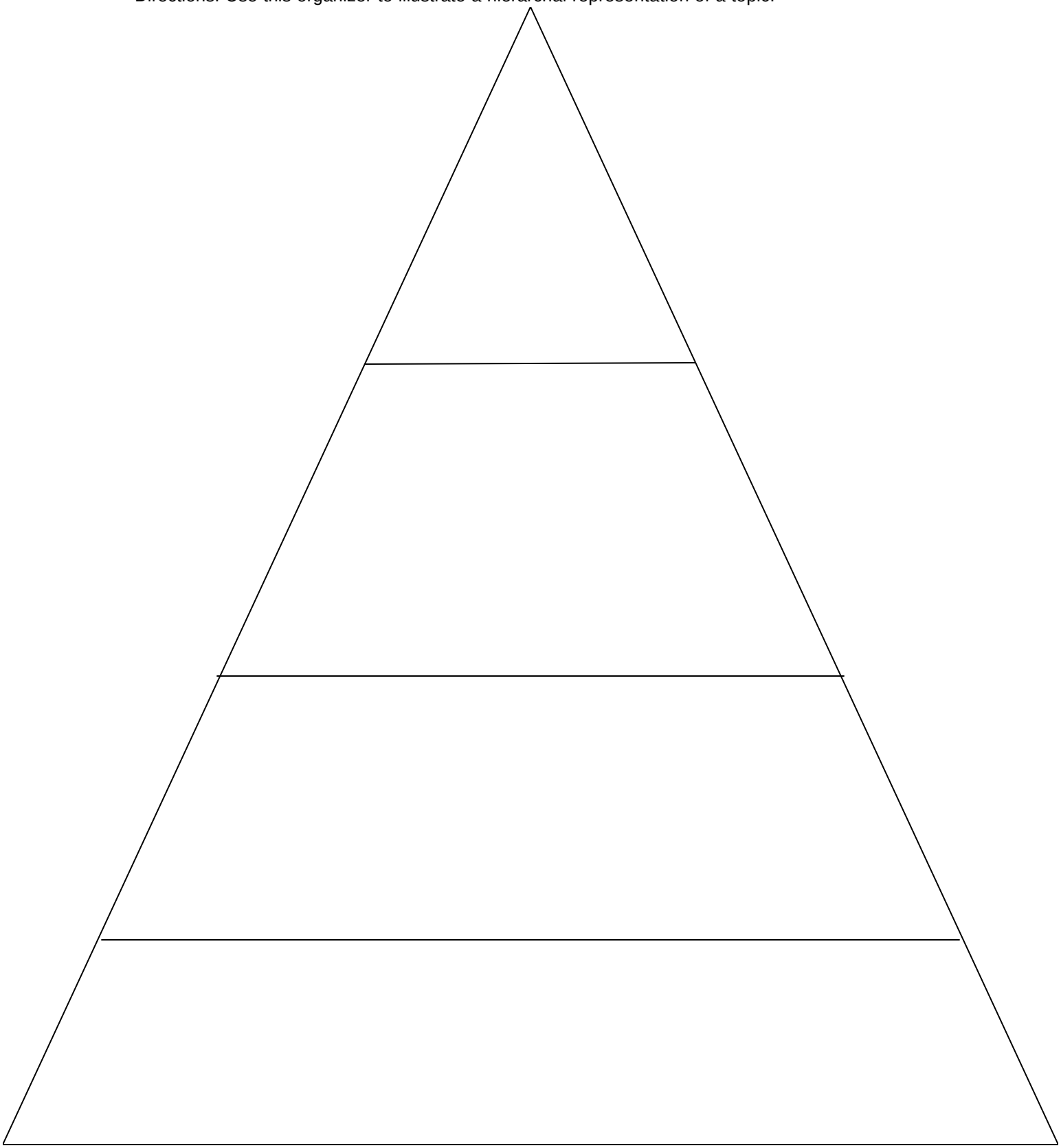
Directions: Use this organizer to show a chain of events leading to an end result.



Name _____ Date _____

Energy Pyramid

Directions: Use this organizer to illustrate a hierarchal representation of a topic.



Name _____ Date _____

Science Vocabulary Builder

Directions: Pick a scientific phenomenon. Describe it and write a word(s) that is best associated with it. Describe characteristics and give real life examples.

Describe a scientific phenomenon.

What is it like?
(Characteristics)

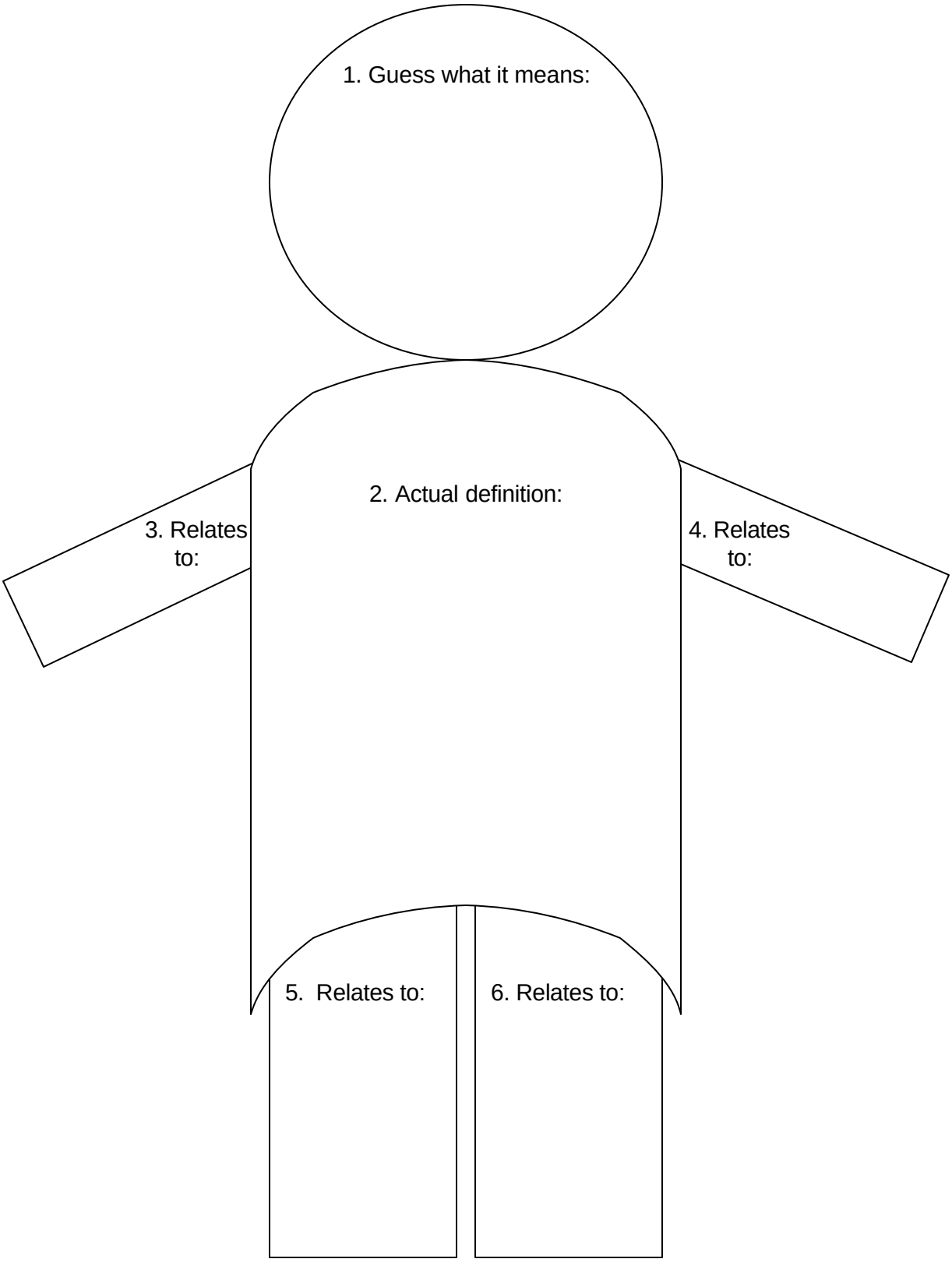
Word(s) associated with the phenomenon:

Real-life Example(s)

Name _____ Date _____

New Word

Directions: Pick a vocabulary word and "guess what it means." Find the actual definition and show relationships to other words in boxes 3-6.



Name _____ Date _____

Meeting a New Word

Directions: Pick a new vocabulary word or concept that you want to learn. Follow instructions in each box.

1. Define word/concept in your own words.

2. Describe the key characteristics.

New Word/Concept:

4. Give examples.

5. Describe how it is used in everyday life.

Name _____ Date _____

Science Vocabulary Awareness

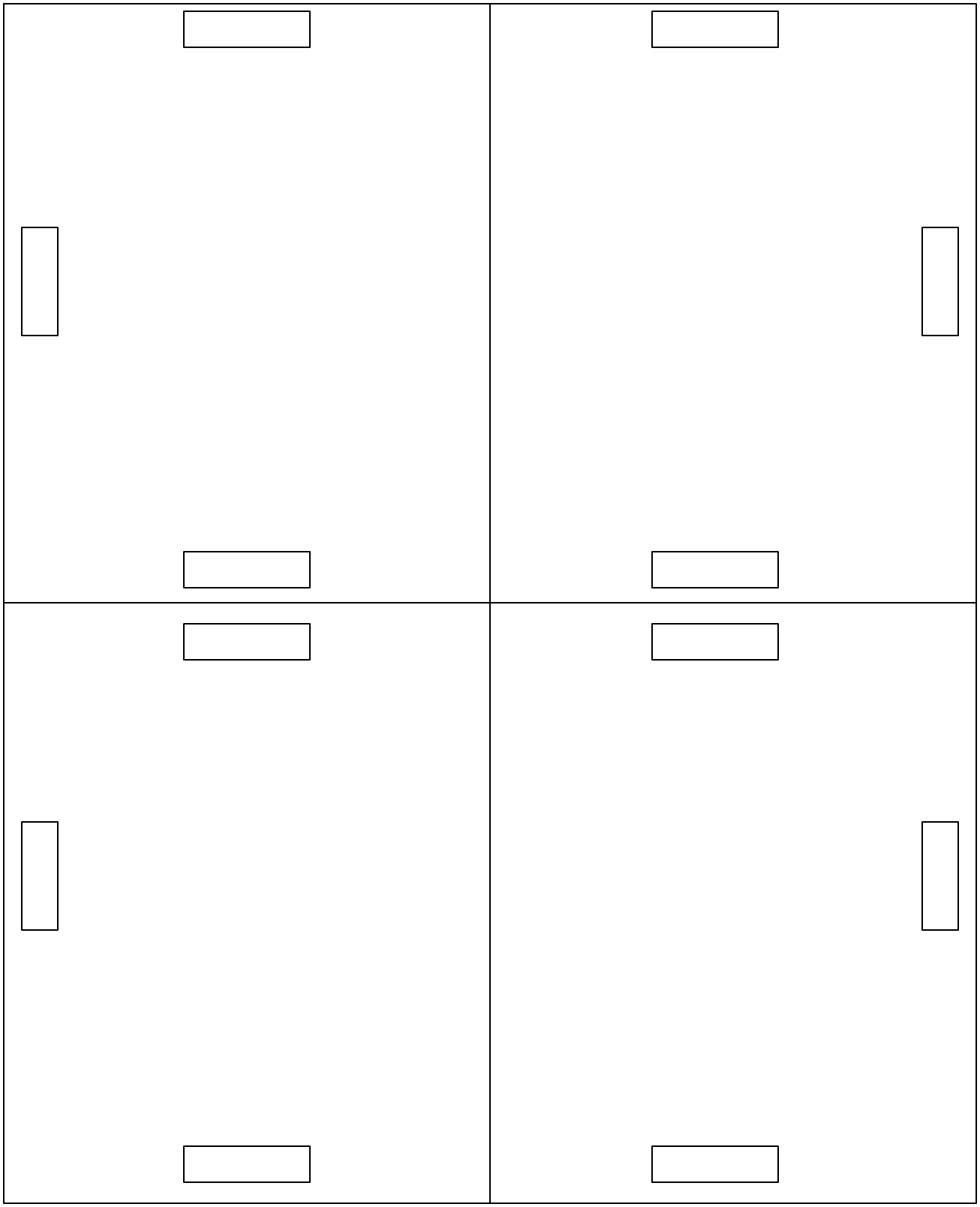
Directions: Use this organizer to assist in building science vocabulary.

Word	Can I define it?	What's it related to?	Definition

Name _____ Date _____

Science Related Word Matching Jigsaw Puzzle

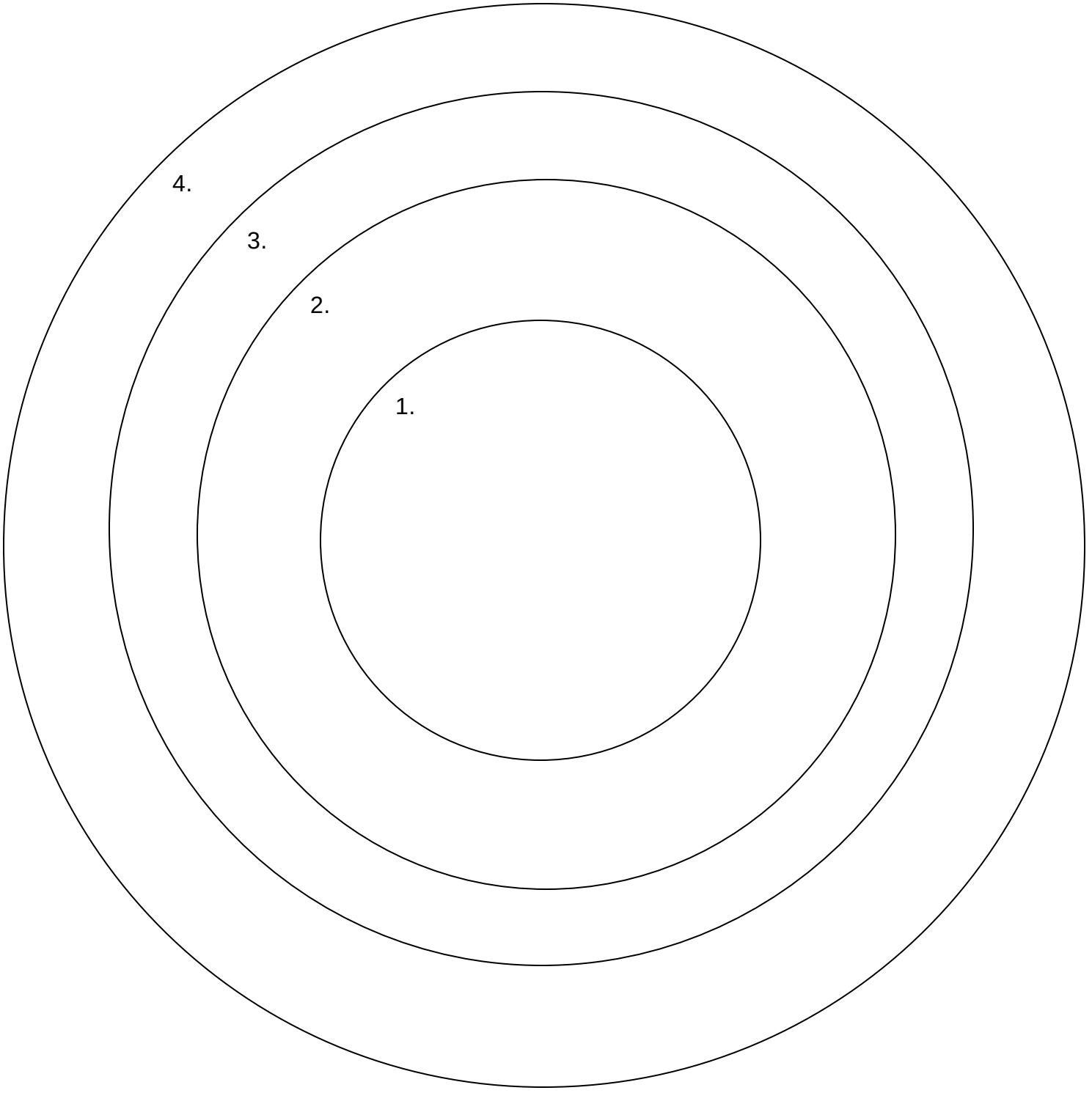
Directions: Write science vocabulary words in the small boxes and see where they match.



Name _____ Date _____

Layer Organizer

Directions: Use this concentric model to illustrate characteristics that a topic possesses.



Name _____ Date _____

Overview

Directions: Pick a topic to explore and list the main ideas in each box. List or describe specific details related to each main idea.

Topic: _____

Main Ideas	Specific Details
	1. _____ 2._____ 3. _____
	1. _____ 2._____ 3. _____
	1. _____ 2._____ 3. _____

Name _____ Date _____

Taxonomy Organizer

Directions: Use this chart to classify organisms according to different categories.

	Organism #1	Organism #2	Organism #3	Organism #4	Organism #5
KINGDOM					
PHYLUM					
CLASS					
ORDER					
FAMILY					
GENUS					
SPECIES					

Name _____ Date _____

This Week's Weather

Directions: Use this chart to collect data and keep track of weather conditions for a five-day period.

	Monday	Tuesday	Wednesday	Thursday	Friday
Date					
Time of Observation					
Temperature					
Types of Clouds Observed					
Percentage of Cloud Cover					
Wind Speed					
Wind Direction					
Time of Sunrise					
Time of Sunset					
Hours of Light					
Precipitation					
Humidity					
Forecast for Tomorrow					

Name _____ Date _____

Multiple Intelligence Lesson Plan

Directions: Use this chart to plan lessons that delineate Howard Gardiner's *Eight Intelligences.*

Logical / Mathematical Component	
Spatial / Visual Component	
Linguistic / Verbal Component	
Body / Kinesthetic Component	
Musical Component	
Interpersonal Component	
Intrapersonal Component	
Naturalistic	

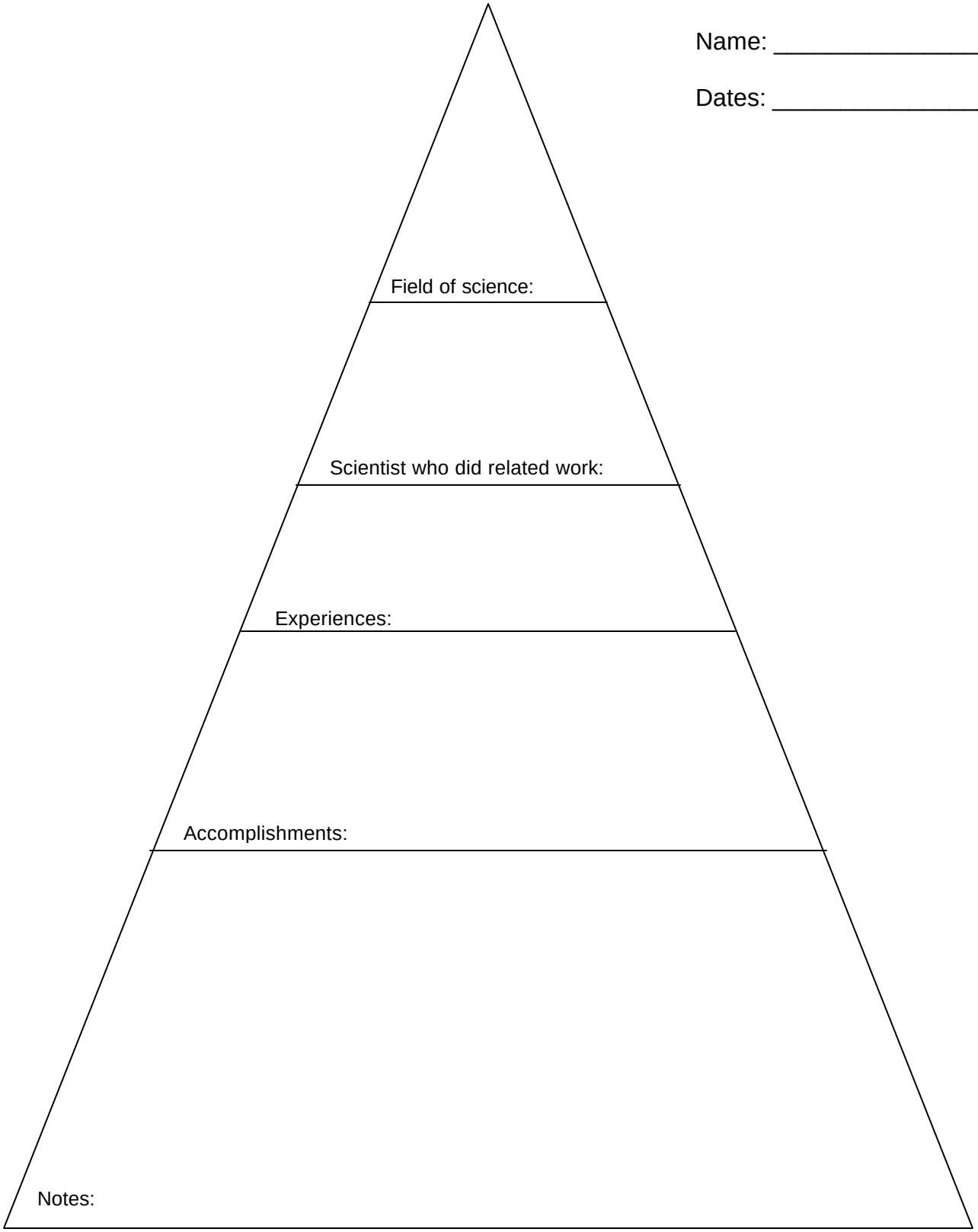
Name _____ Date _____

Scientist's Biography

Directions: Use this pyramid graphic to illustrate notable characteristics/features related to a scientist that you wish to learn more about.

Name: _____

Dates: _____



Name _____ Date _____

SQ3R Chart

Directions: This chart is helpful when reading a passage. Use one chart for each major section.

Survey Write the most important titles.	
Question Write a who, what, when, where, and why question.	
Read Read all information to answer questions.	
Recite Orally answer questions.	
Review Create summaries and main ideas from the passage.	