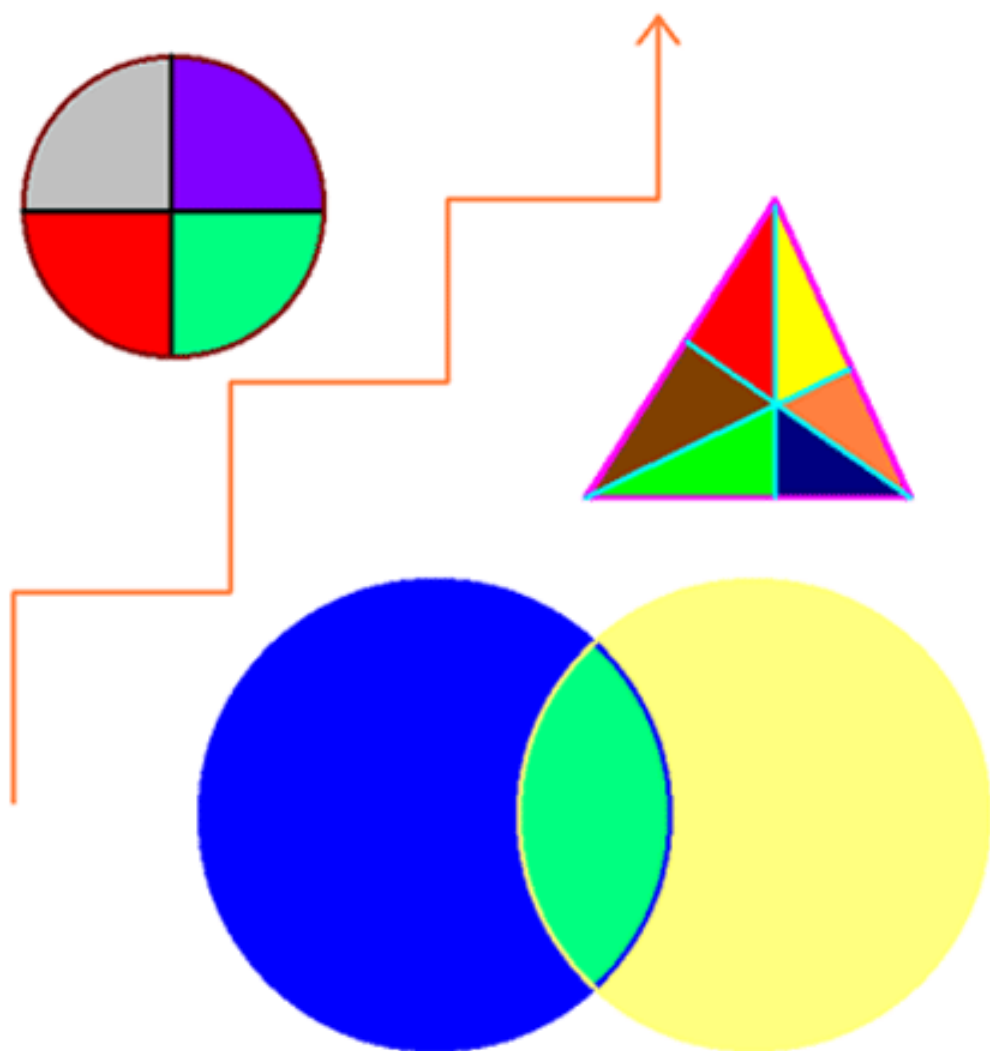


Teacher Workbooks

Graphic Organizer Series



Science Organizers Volume 1

Technology Publishing Company

Teacher Workbooks

Graphic Organizer Series
Science Organizers
Vol. 1

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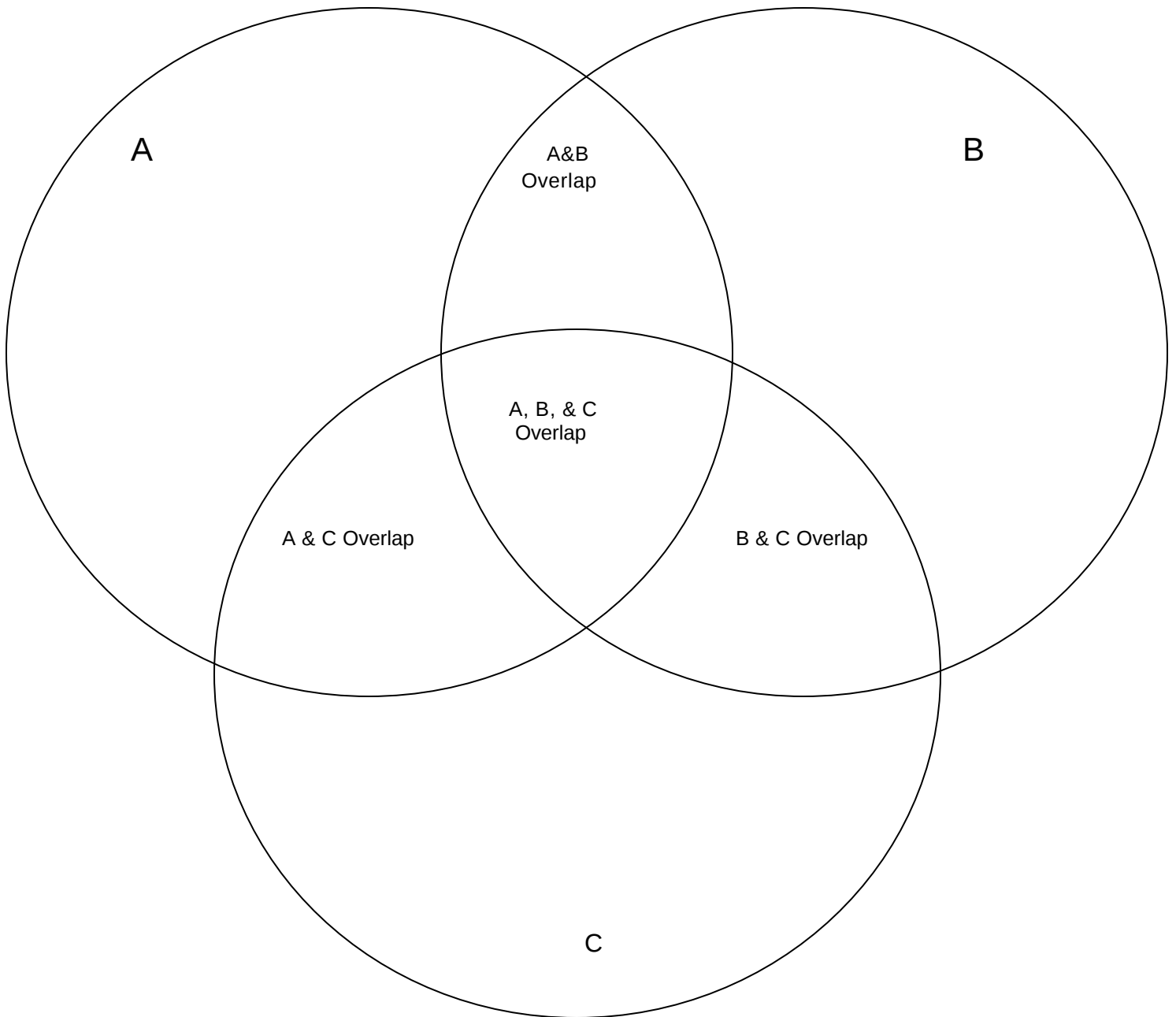
Name _____

Date _____

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 _____

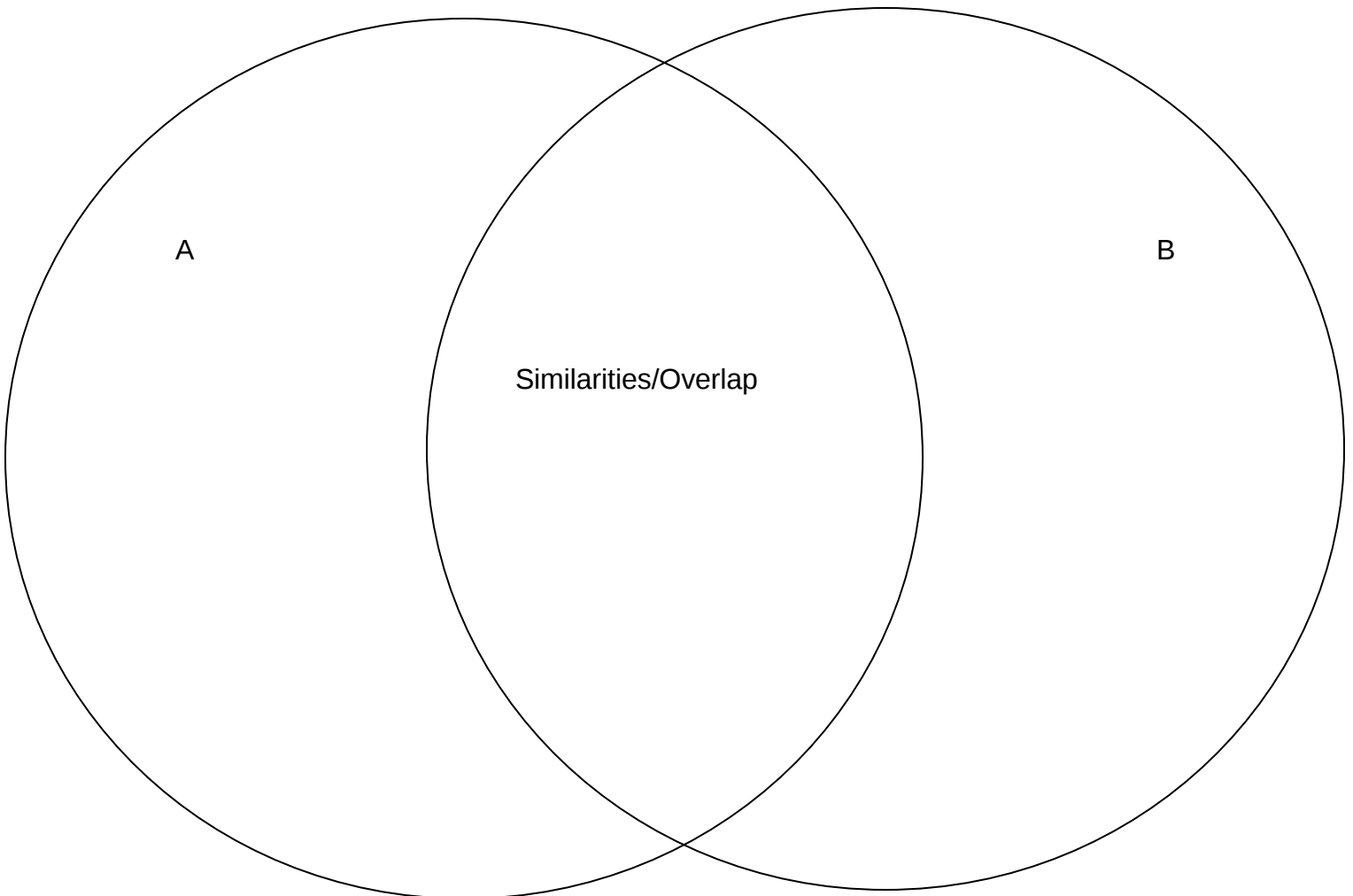
Venn Diagram

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.

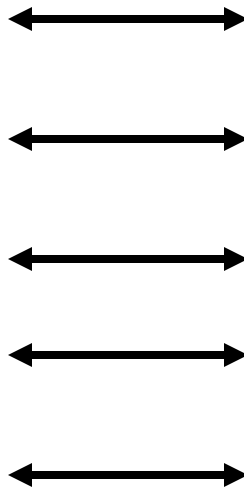
Topic: _____

Concept 1:

Concept 2:

How are
they alike?

How are they
different?



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:			

Date _____

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.

7

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: _____	

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.

	Possible Results	Describe specific results.
Planned Action		
Planned Action		
Planned Action		

Name _____

Date _____

Group Plan

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

Materials needed:

Goal(s):

Group members and roles:

Plan:

Evaluation and due dates:

Name _____

Date _____

Cause & Effect

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

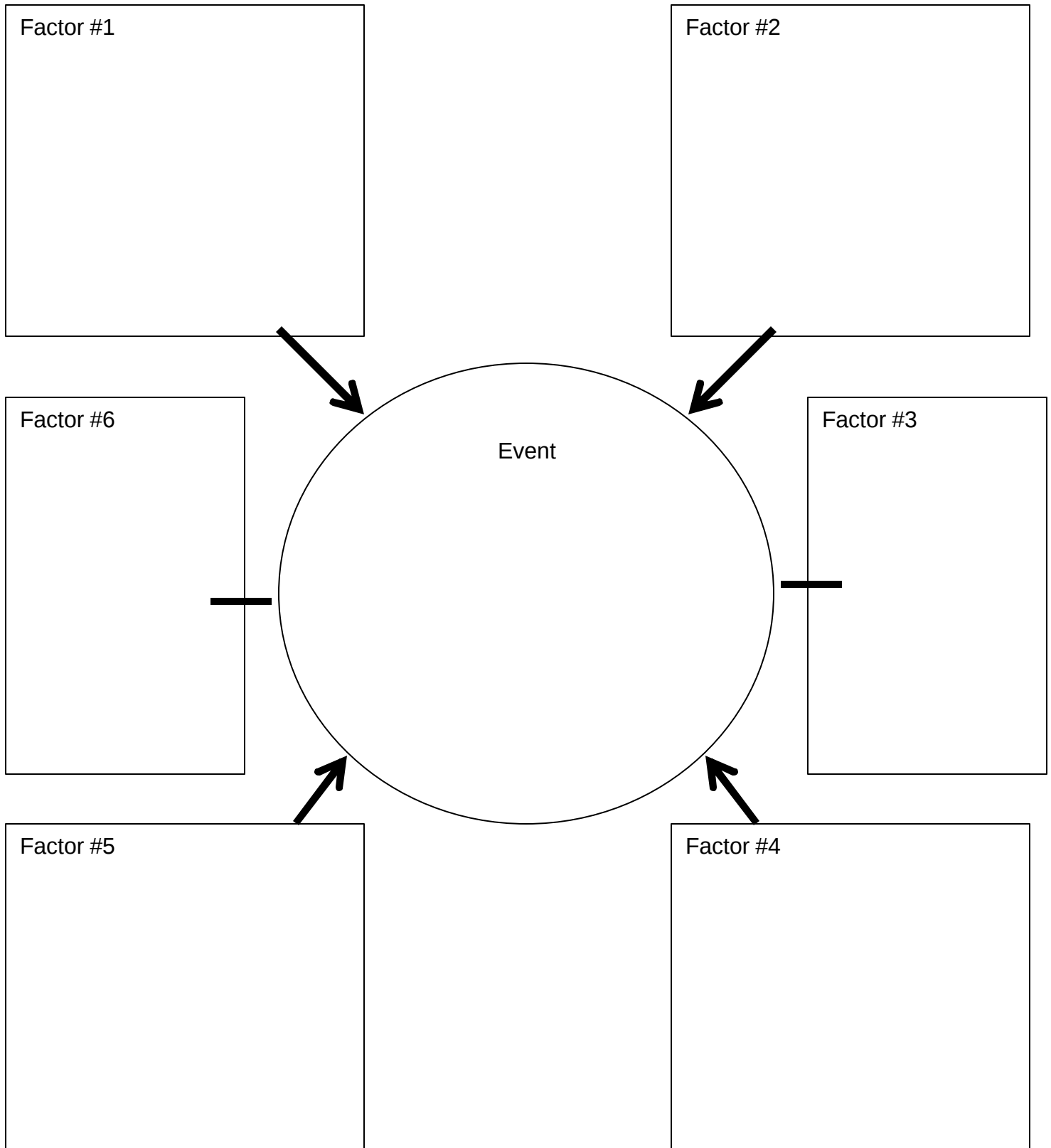
Cause	Cause	Cause
Event:		
Effect	Effect	Effect

Name _____

Date _____

Factors in the Cause

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

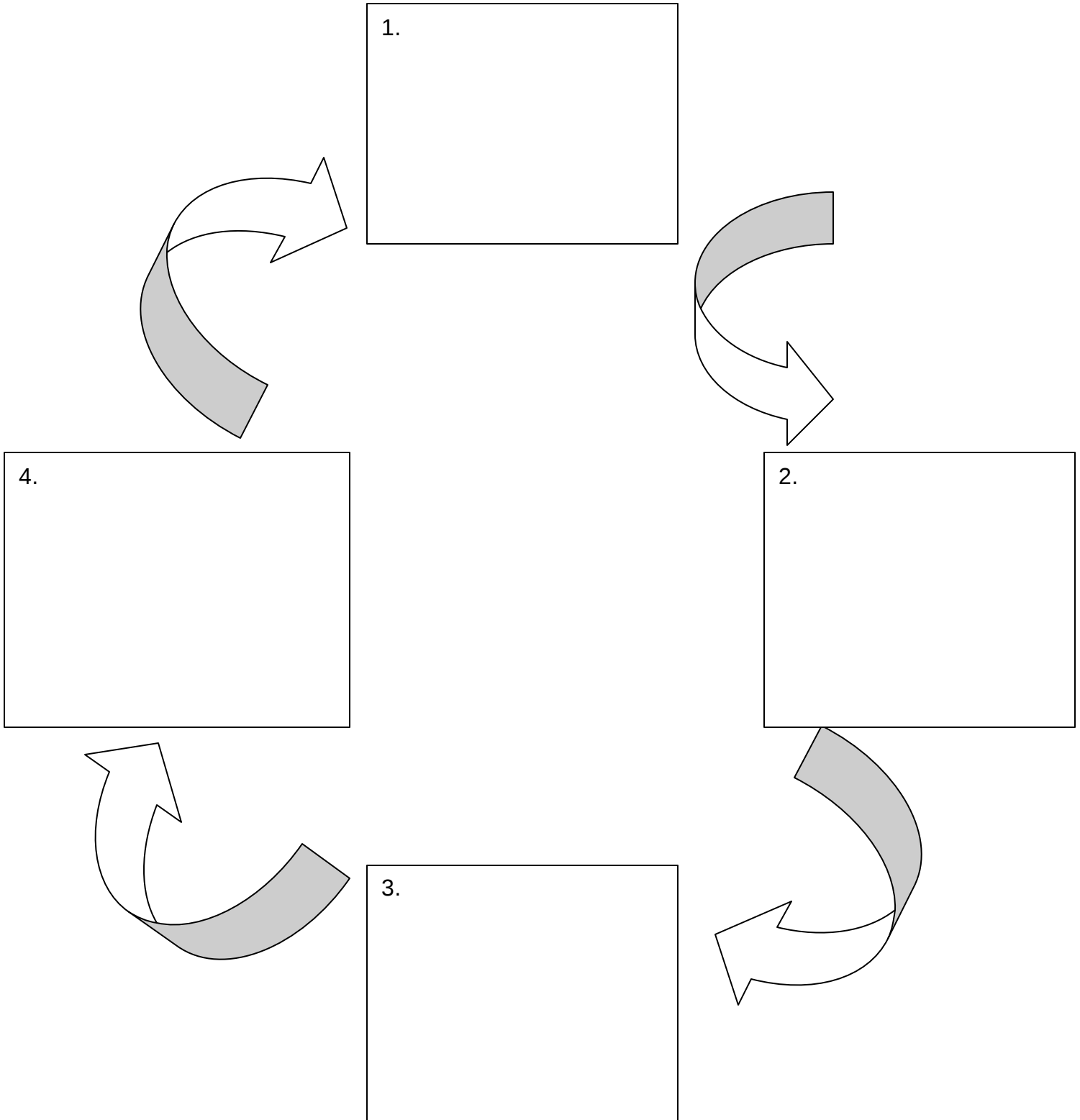


Name _____

Date _____

Four Stage Cycle

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

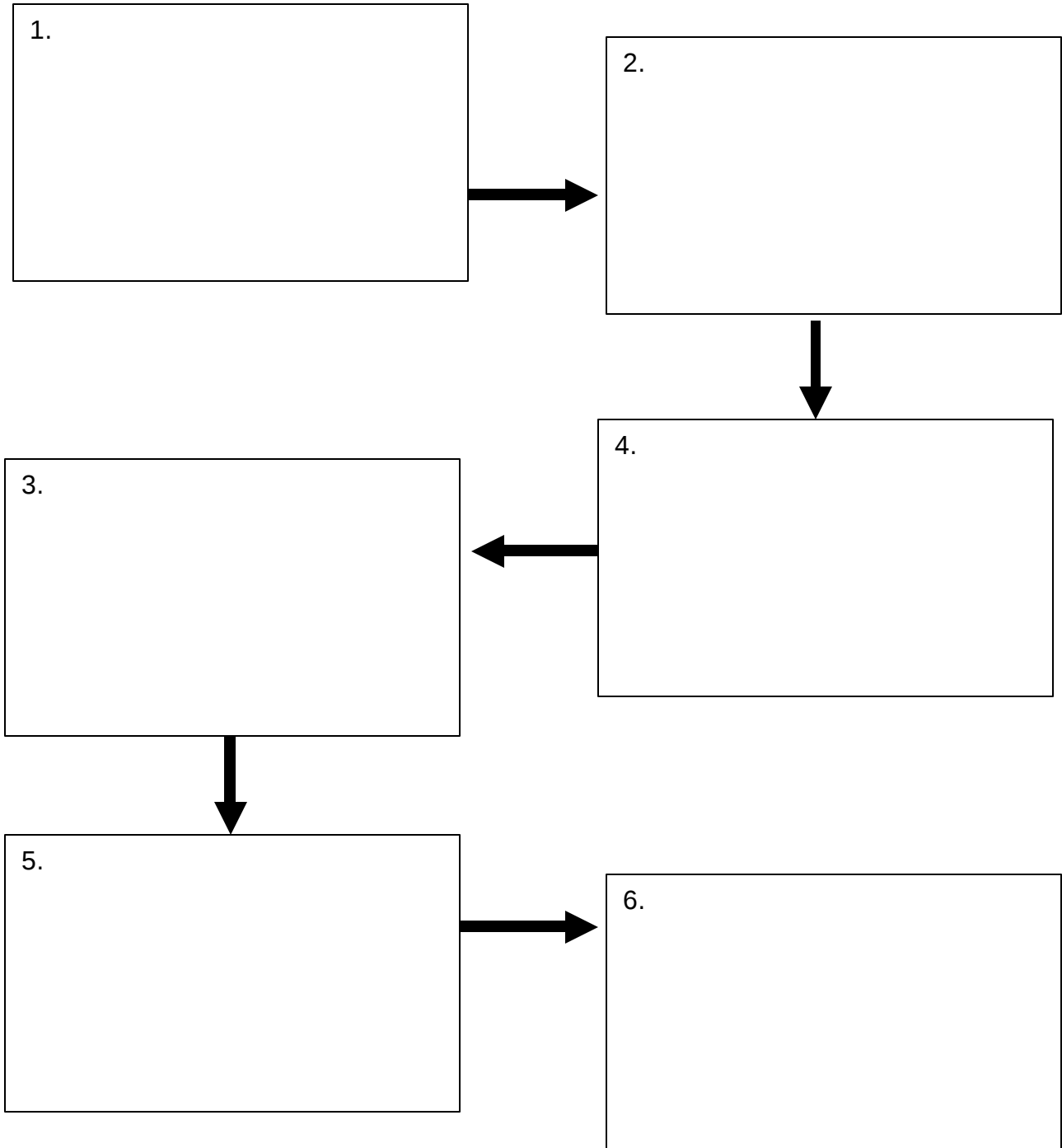


Name _____

Date _____

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.

The diagram consists of nine rectangular boxes arranged in three rows of three. Each box contains a number from 1 to 9. The boxes are connected by arrows and a continuous line. The first row contains boxes 1, 2, and 3. The second row contains boxes 4, 5, and 6. The third row contains boxes 7, 8, and 9. Arrows point from box 1 to 2, 2 to 3, 4 to 5, 5 to 6, and 7 to 8. A continuous line connects the bottom of box 3 to the bottom of box 4, and another continuous line connects the bottom of box 6 to the bottom of box 7.

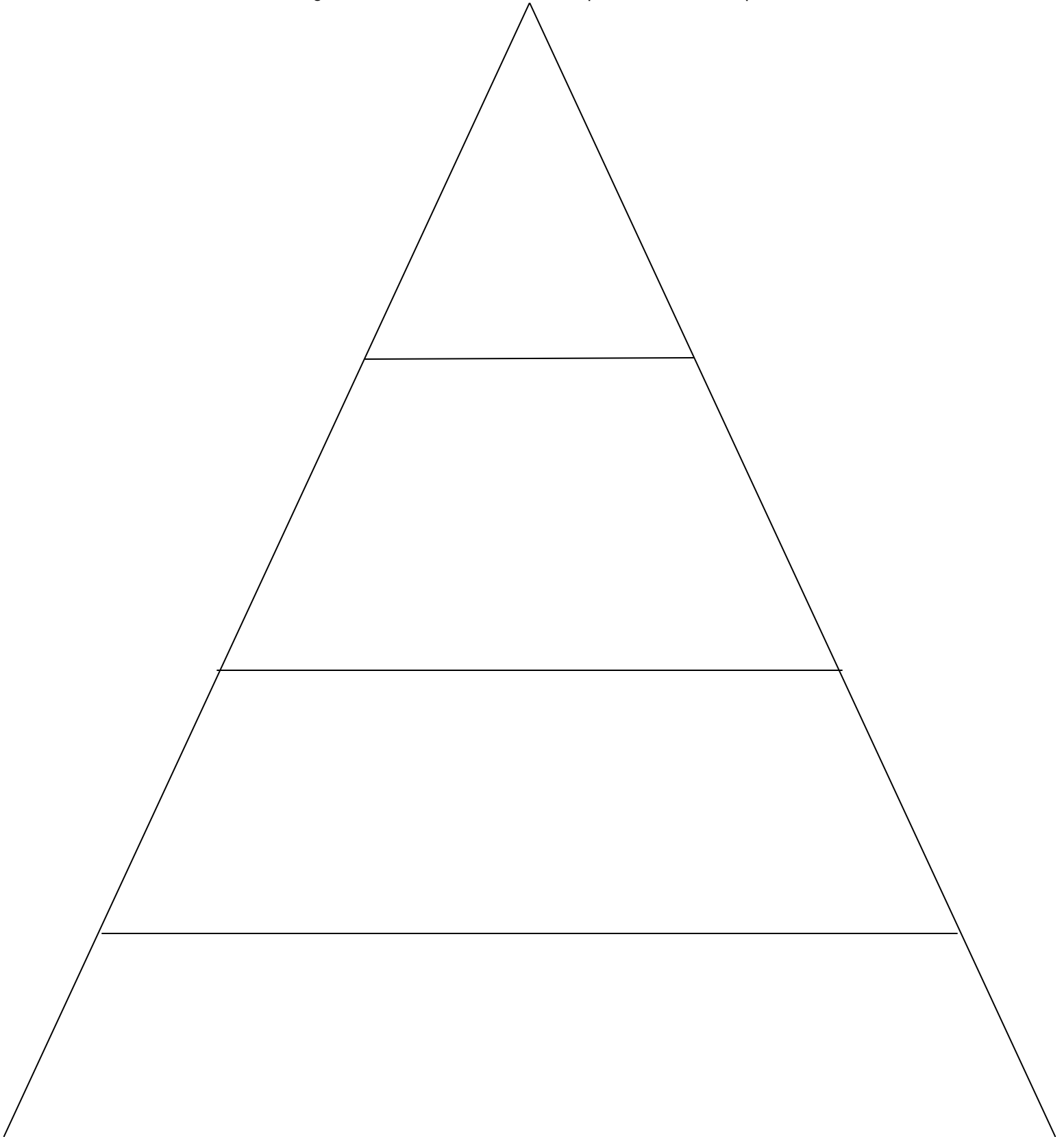
```
graph LR; 1[1.] --> 2[2.]; 2 --> 3[3.]; 3 --- 4[4.]; 4 --> 5[5.]; 5 --> 6[6.]; 6 --- 7[7.]; 7 --> 8[8.]; 8 --> 9[9.]
```

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.

The form is a human-shaped outline with the following sections:

- 1. Guess what it means:** A large circle at the top of the head.
- 2. Actual definition:** A large rounded rectangle in the center of the torso.
- 3. Relates to:** A trapezoidal box on the left arm.
- 4. Relates to:** A trapezoidal box on the right arm.
- 5. Relates to:** A rectangular box on the bottom left of the legs.
- 6. Relates to:** A rectangular box on the bottom right of the legs.

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

Date _____

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

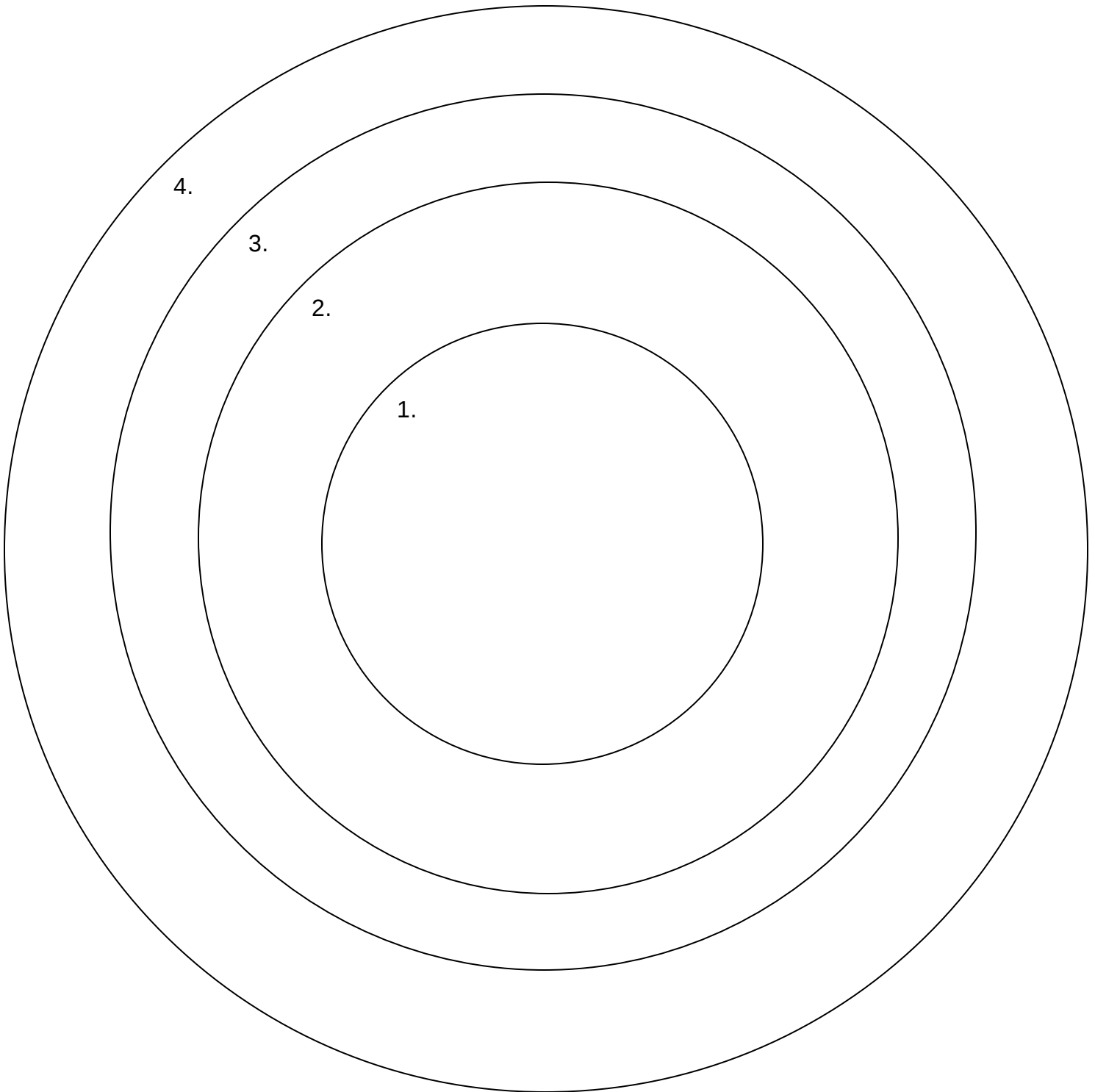
[illegible]

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: _____

Field of science:

Scientist who did related work:

Experiences:

Accomplishments:

Notes:

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.	