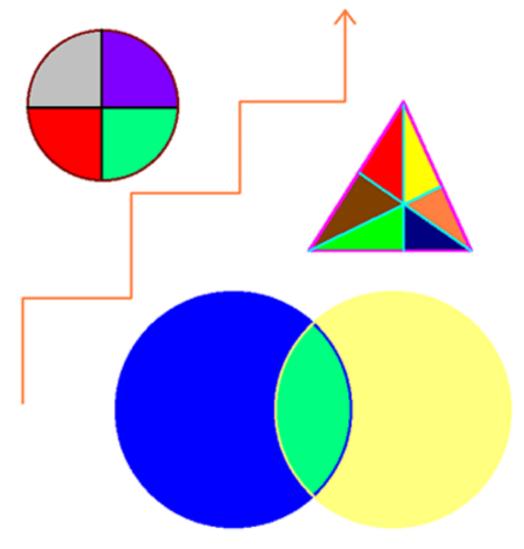
Teacher Workbooks

Graphic Organizer Series



Science Organizers Volume 1

Teachnology Publishing Company

Teacher Workbooks

Graphic Organizer Series Science Organizers Vol. 1

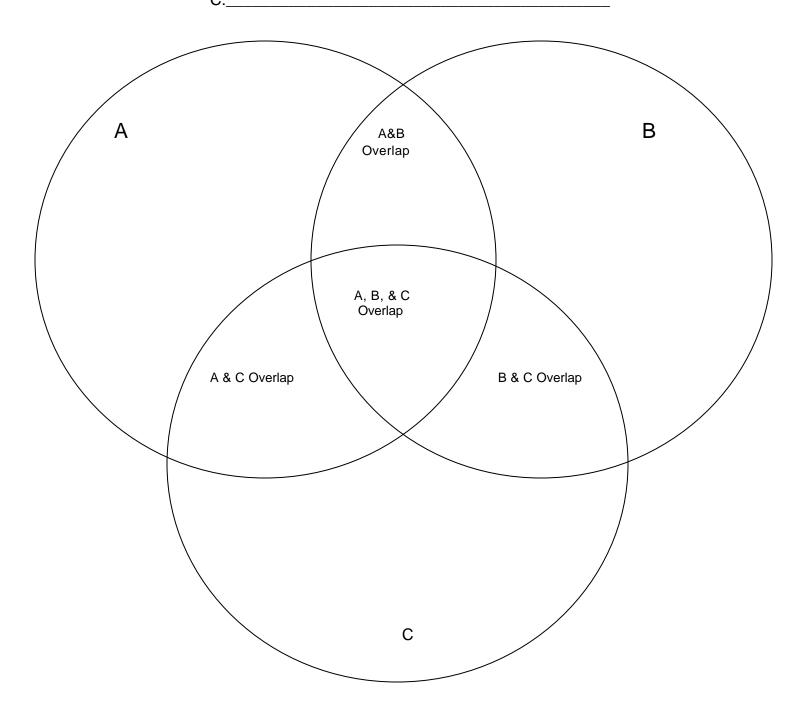
Table of Contents

Compari sons	
Three Circle Venn Diagram	1
Venn Di agram	2
Comparing Concepts	3
Likenesses & Differences	4
Rel ati onshi ps	5
Comparing Scientists	6
Comparison Chart	7
Project Planning	
Project Planning Controlled Experiment Organizer	8
Division of Labor	0
Sightseeing Organizer	10
Sorting Organizer	11
Rock Hunting	19
Rock Hunting Science Project Organizer	12
Planning Chart	14
Group Plan	15
uroup Trans	
Cycles and Chains Cause & EffectFactors in the Cause	
Cause & Effect	16
Factors in the Cause	17
Four Stage Cycle	18
Six Stage Chain	19
Ni ne Stage Chai n	20
Energy Pyramid	21
Science Vocabulary Science Vocabulary Builder	
Science Vocabulary Builder	22
New Word	~s
Meeting a New Word	24
Science Vocabulary Awareness Science Related Word Matching Jigsaw Puzzle	25
Science Related Word Matching Jigsaw Puzzle	26
Basi c Sci ence Organi zers Layer Organi zer	
Layer Urgani zer	27
Overvi ew	28
Taxonomy Organi zer	29
This Week's Weather Multiple Intelligence Lesson Plan	30
Multiple intelligence Lesson Plan	31
Scientists BiographySO3R Chart	32
NUSK LUART	33

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.



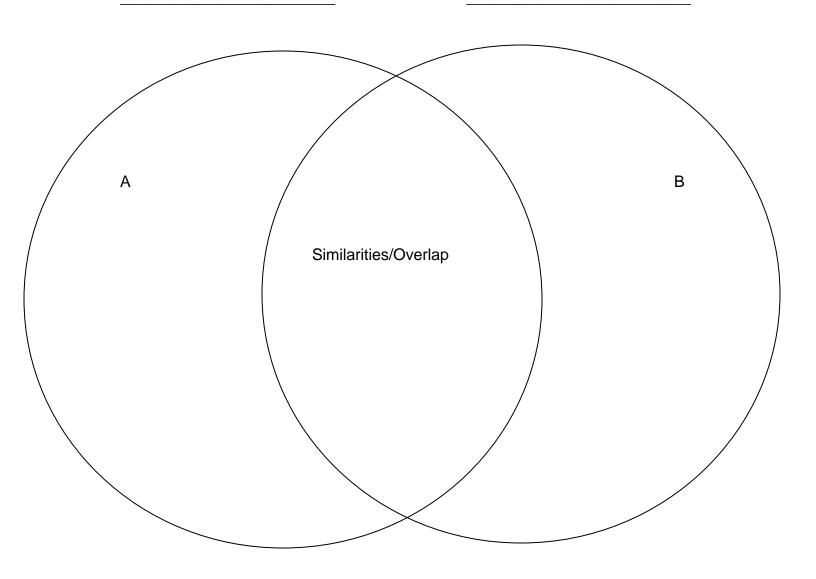
Venn Diagram

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:

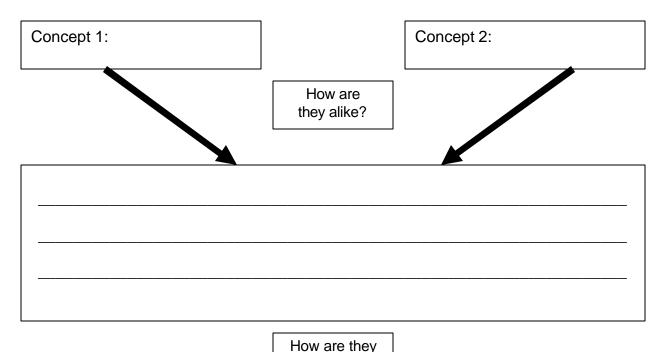


Name		

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: _____



different?	
 ←	
 ←	
 	
 ←	

Likenesses & Differences

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

Concept 1:		Concept 2:	
	↓	↓	↓
Different	Same		Different

Name		
Name		

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

Concept 1:		Concept 2:
	1	
	←	
	←	
	←	
	←	
	←	
	←	

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	/ ,		/ .		/ .					
										1

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
	l		

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
Name Date

Sorting Organizer Directions: Use this organizer to keep track of sorting.

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	+2		
what will i need to complete projec	ν.:		
Possible problems I might encounted	er:	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		
		<u></u>

Name		

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		
Date		

Cause & Effect

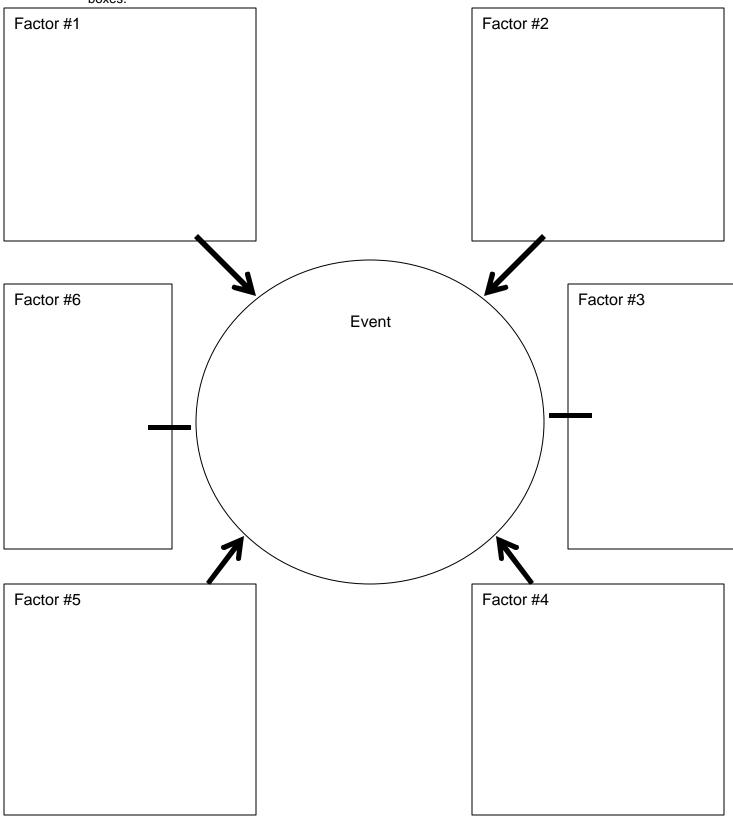
Directions: Pick an event to explore or investigate and describe the effects of that event in the appropriate boxes.

Cause		Cause		Cause
	J		1	
Event:			 	
Effect		Effect		Effect

Name			
1 101110			

Factors in the Cause

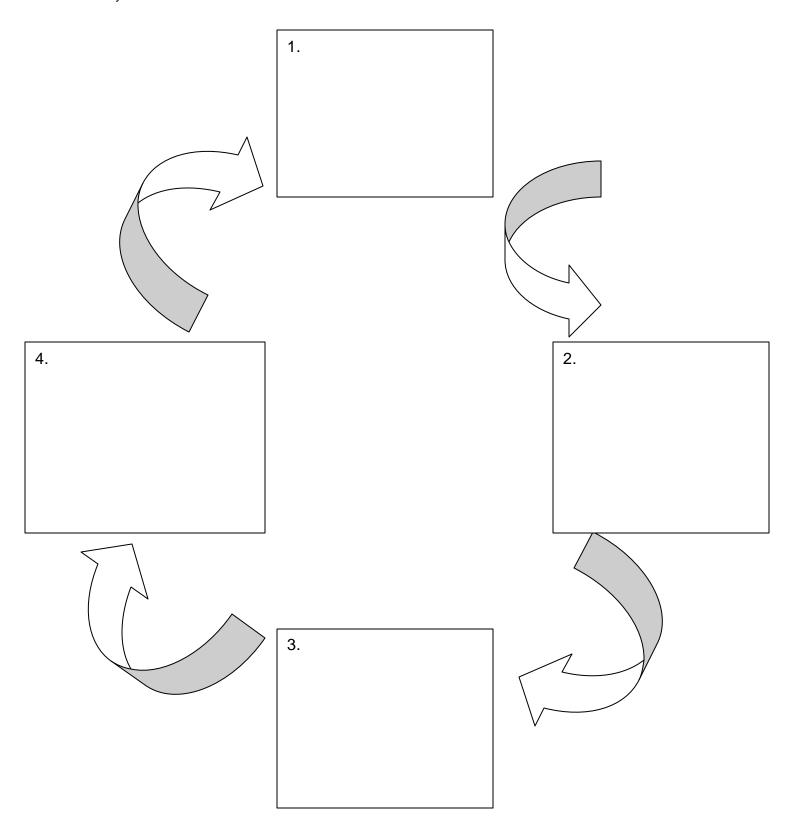
Directions: Choose an event and describe the factors that caused the event in the appropriate boxes.



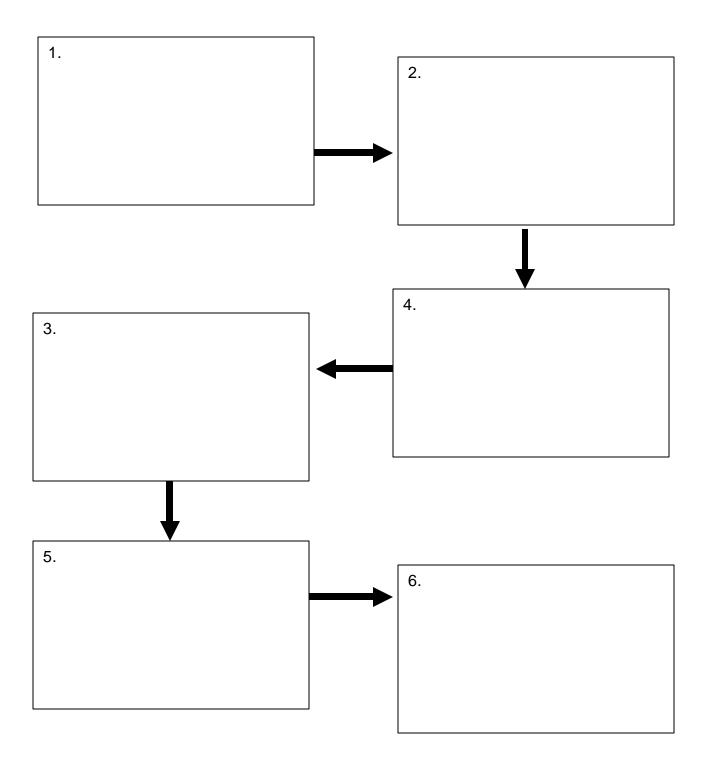
Name		
Name		

Four Stage Cycle

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

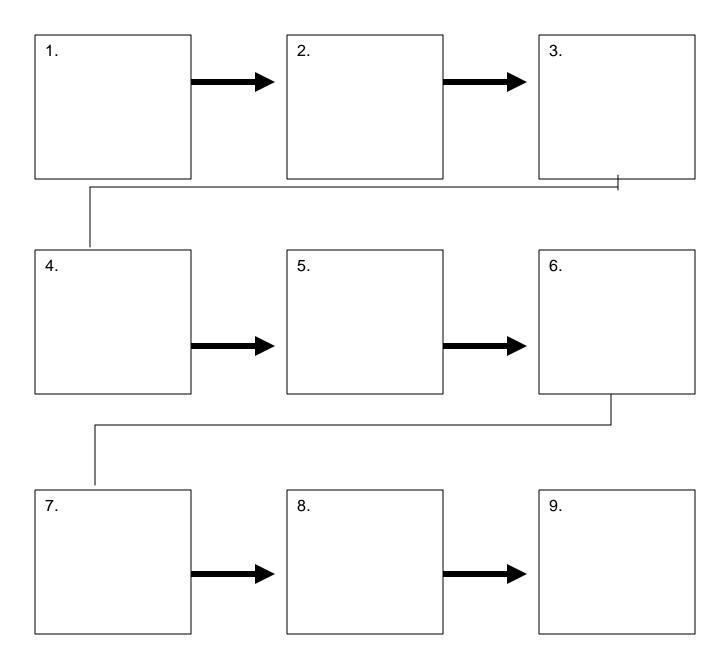


Six Stage Causal Chain Directions: Use this organizer to illustrate a causal chain resulting in a final outcome.



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.

Date
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.

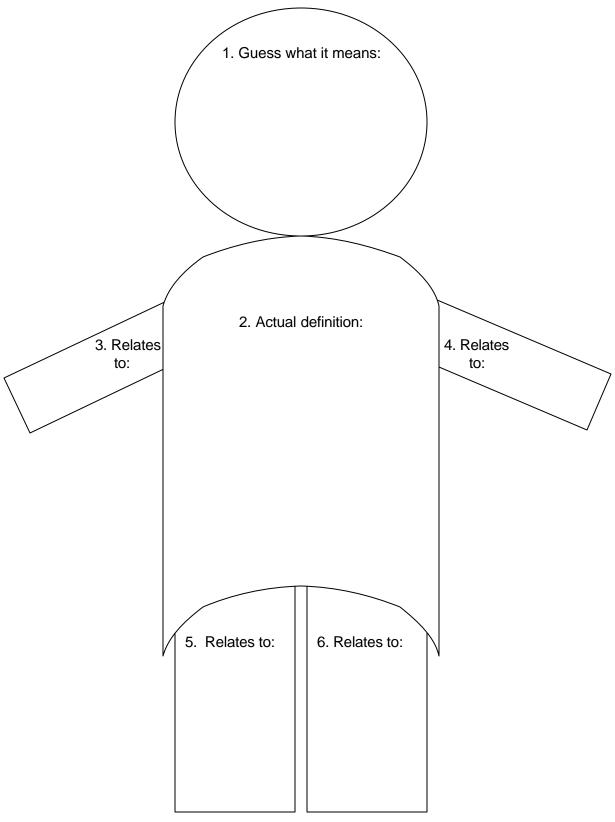
Describe a scientific phenomenon.	What is it like? (Characteristics)
Word(s) associated with the phenomenon:	

Real-life Example(s)

Name		
Name		

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		

Meeting a New Word

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

Define word/concept in your own words.	2. Describe the key characteristics.
	1/0
New Wor	rd/Concept:
)

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
		_	

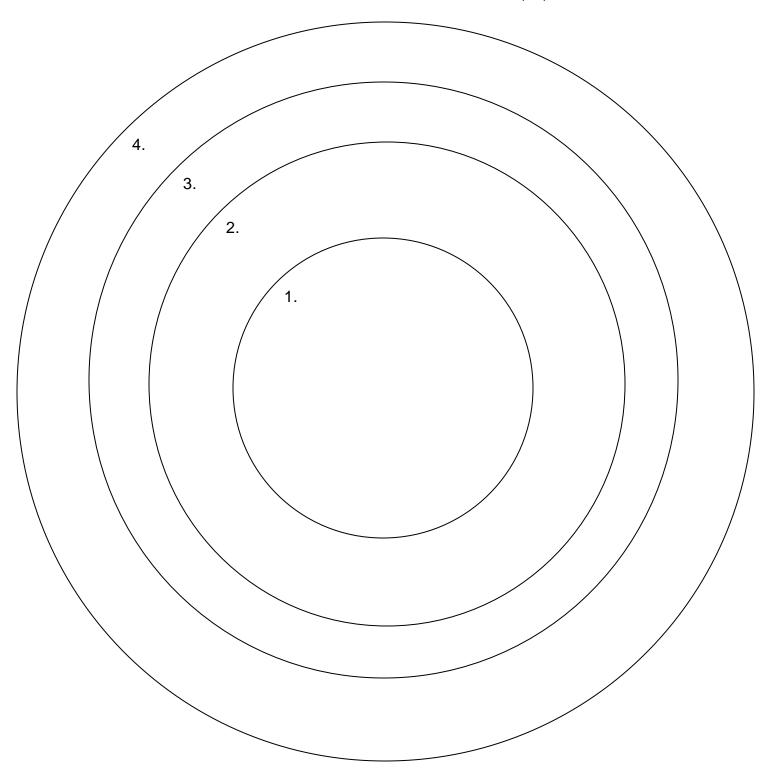
Name	Date	
inailie	Date	

Science Related Word Matching Jigsaw Puzzle Directions: Write science vocabulary words in the small boxes and see where they match.

Name	Date
INAIIIC	Date

Layer Organizer

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



Name		
INGILIC		

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	
เงลเนเลแรแน	

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:	
Scientist who did related work.	
Experiences:	
Experiences:	
Accomplishments:	
otes:	

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.	
Overetion.	
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.	