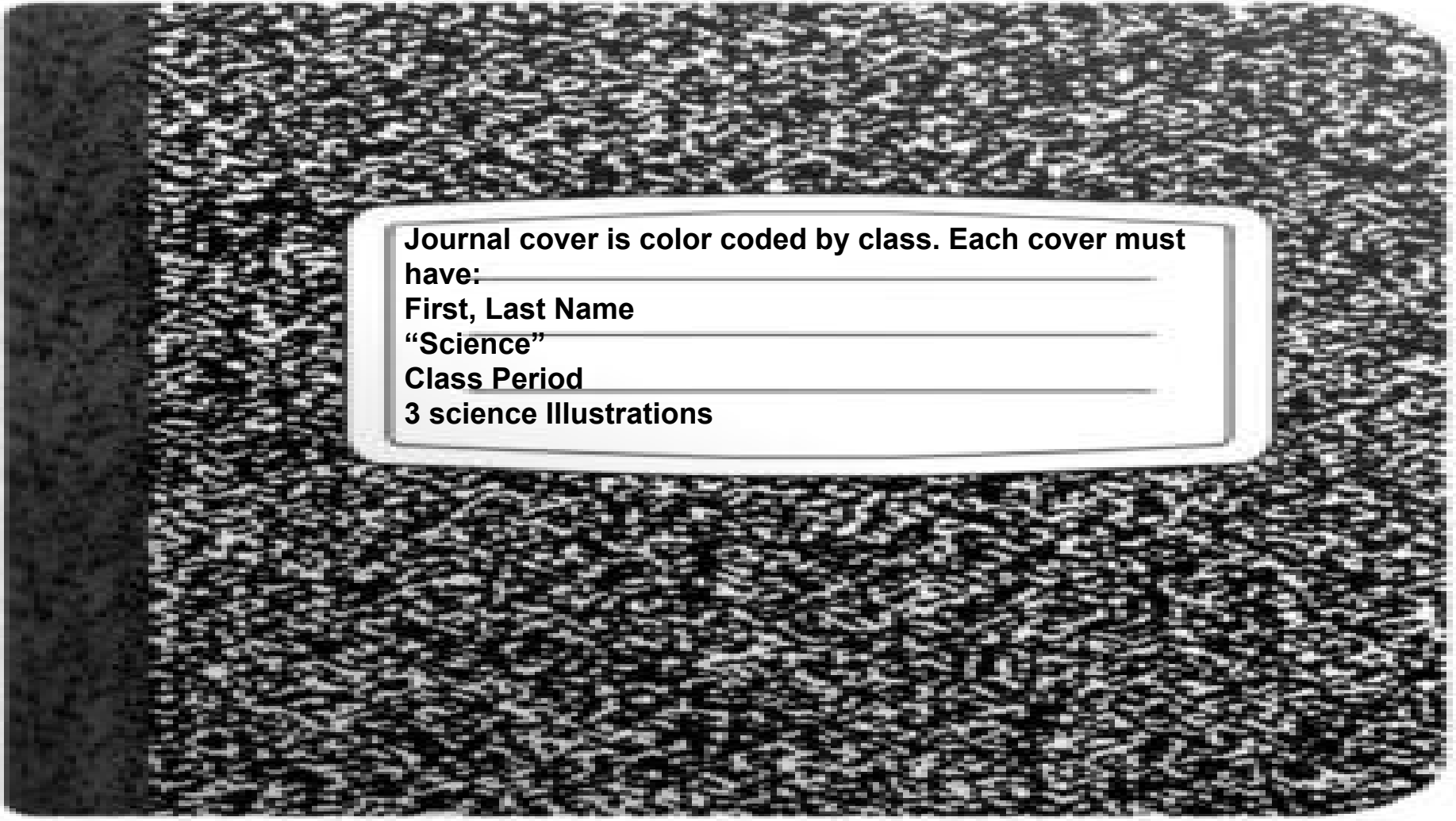
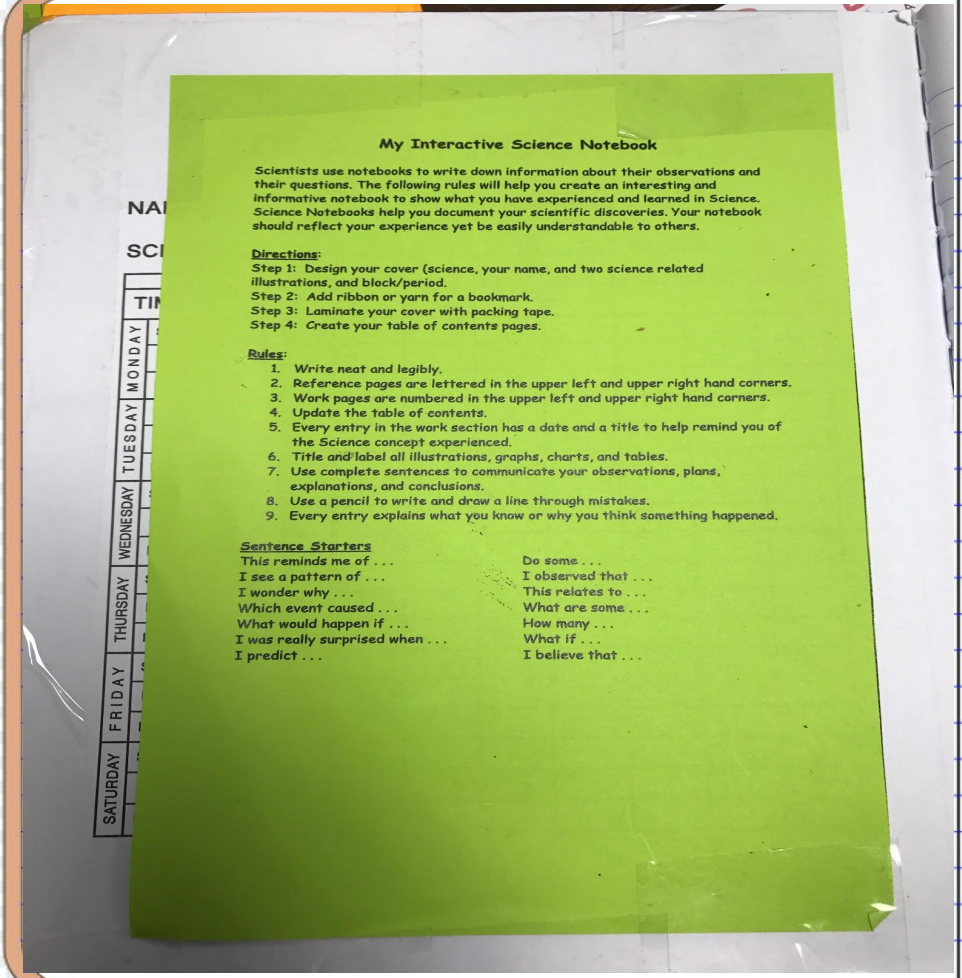

Journal cover is color coded by class. Each cover must have:
First, Last Name
“Science”
Class Period
3 science Illustrations



My Interactive Science Notebook

Scientists use notebooks to write down information about their observations and their questions. The following rules will help you create an interesting and informative notebook to show what you have experienced and learned in Science. Science Notebooks help you document your scientific discoveries. Your notebook should reflect your experience yet be easily understandable to others.

Directions:
Step 1: Design your cover (science, your name, and two science related illustrations, and block/period.
Step 2: Add ribbon or yarn for a bookmark.
Step 3: Laminate your cover with packing tape.
Step 4: Create your table of contents pages.

Rules:
1. Write neat and legibly.
2. Reference pages are lettered in the upper left and upper right hand corners.
3. Work pages are numbered in the upper left and upper right hand corners.
4. Update the table of contents.
5. Every entry in the work section has a date and a title to help remind you of the Science concept experienced.
6. Title and label all illustrations, graphs, charts, and tables.
7. Use complete sentences to communicate your observations, plans, explanations, and conclusions.
8. Use a pencil to write and draw a line through mistakes.
9. Every entry explains what you know or why you think something happened.

Sentence Starters

This reminds me of . . .
I see a pattern of . . .
I wonder why . . .
Which event caused . . .
What would happen if . . .
I was really surprised when . . .
I predict . . .

Do some . . .
I observed that . . .
This relates to . . .
What are some . . .
How many . . .
What if . . .
I believe that . . .

TABLE OF CONTENTS

DATE	TITLE	PG#

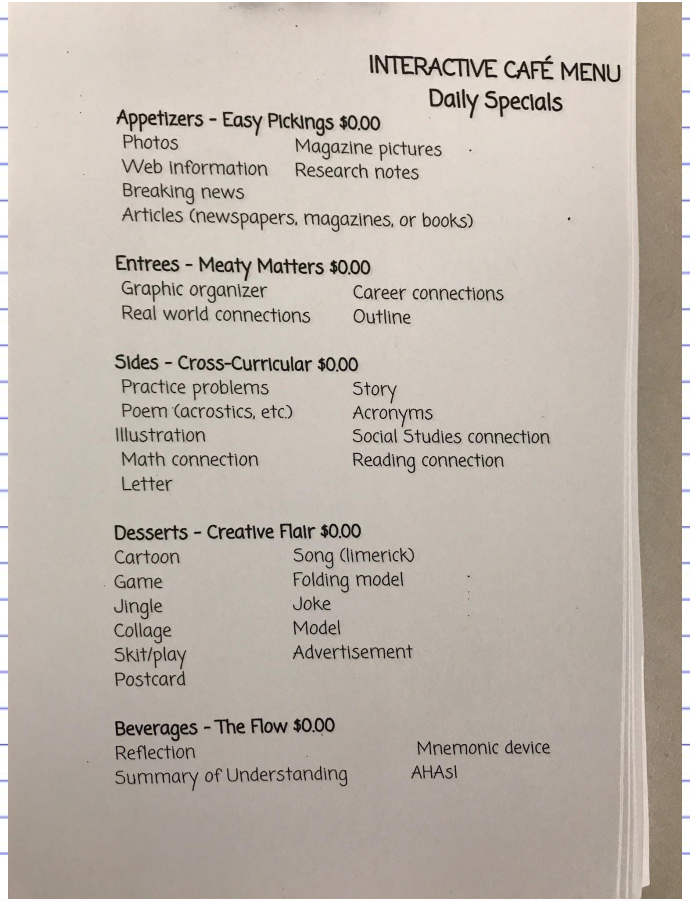
TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS

A



INTERACTIVE CAFÉ MENU
Daily Specials

Appetizers - Easy Pickings $0.00

Photos
Web information
Breaking news
Articles (newspapers, magazines, or books)
Magazine pictures
Research notes

Entrees - Meaty Matters $0.00

Graphic organizer
Real world connections
Career connections
Outline

Sides - Cross-Curricular $0.00

Practice problems
Poem (acrostics, etc.)
Illustration
Math connection
Letter
Story
Acronyms
Social Studies connection
Reading connection

Desserts - Creative Flair $0.00

Cartoon
Game
Jingle
Collage
Skit/play
Postcard
Song (limerick)
Folding model
Joke
Model
Advertisement

Beverages - The Flow $0.00

Reflection
Summary of Understanding
Mnemonic device
AHAs!

B

Interactive Notebooks are characterized by

RIGHT SIDE Input and LEFT SIDE Output!

Left Side Characteristics

Colorful, creative, unique to student, demonstrates understanding, entered on odd numbered pages, date and subject title at top of each page.

Right Side Characteristics

Content and concepts of curriculum, notes, teacher or text driven, entered on even numbered pages, date and subject title at top of each page.

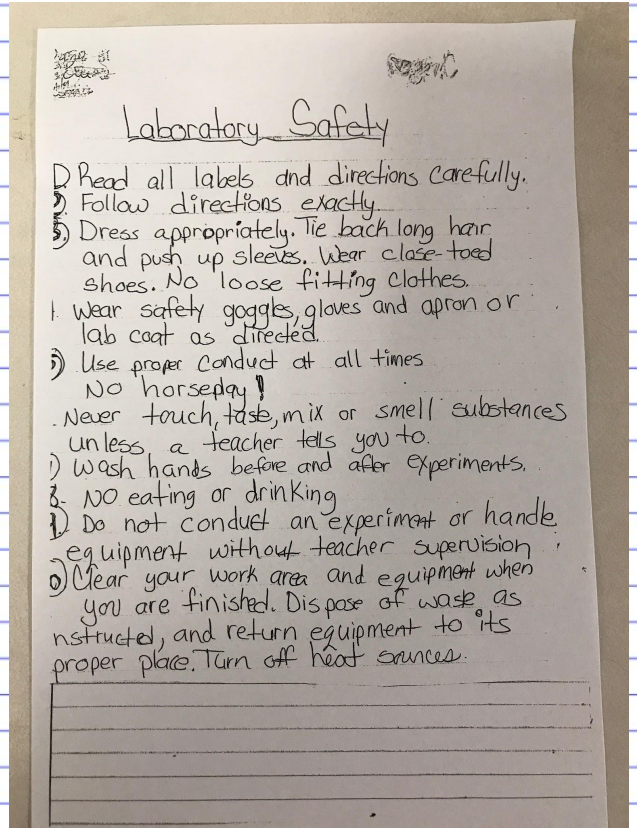
Left Side Examples	Right Side Examples
Photos	Notes
Pictures	Daily Assignments
Articels	Lab Investigations
Cartoon	Hand outs
T-chart	Vocabulary
Bar graph	Foldables
Web information	Graphic organizers
Poems	Classroom activities
Nmeumonic device	
Song	
Summary	
Reflection	

An Interactive Notebook gives students a place to:

- **Set Goals**
- **Plan Study Strategies**
- **Document Learning**
- **Track Success**

C

RULES

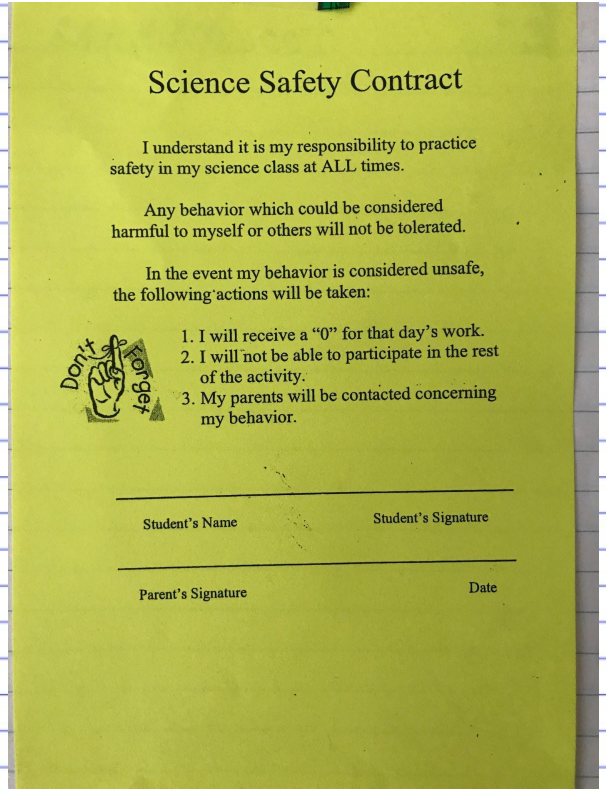


Laboratory Safety

1) Read all labels and directions carefully.
2) Follow directions exactly.
3) Dress appropriately. Tie back long hair and push up sleeves. Wear close-toed shoes. No loose fitting clothes.
4) Wear safety goggles, gloves and apron or lab coat as directed.
5) Use proper conduct at all times
No horseplay!
6) Never touch, taste, mix or smell substances unless a teacher tells you to.
7) Wash hands before and after experiments.
8) NO eating or drinking
9) Do not conduct an experiment or handle equipment without teacher supervision.
10) Clear your work area and equipment when you are finished. Dispose of waste as instructed, and return equipment to its proper place. Turn off heat sources.

SAFETY

D



Science Safety Contract

I understand it is my responsibility to practice safety in my science class at ALL times.

Any behavior which could be considered harmful to myself or others will not be tolerated.

In the event my behavior is considered unsafe, the following actions will be taken:

1. I will receive a "0" for that day's work.
2. I will not be able to participate in the rest of the activity.
3. My parents will be contacted concerning my behavior.

Student's Name Student's Signature

Parent's Signature Date

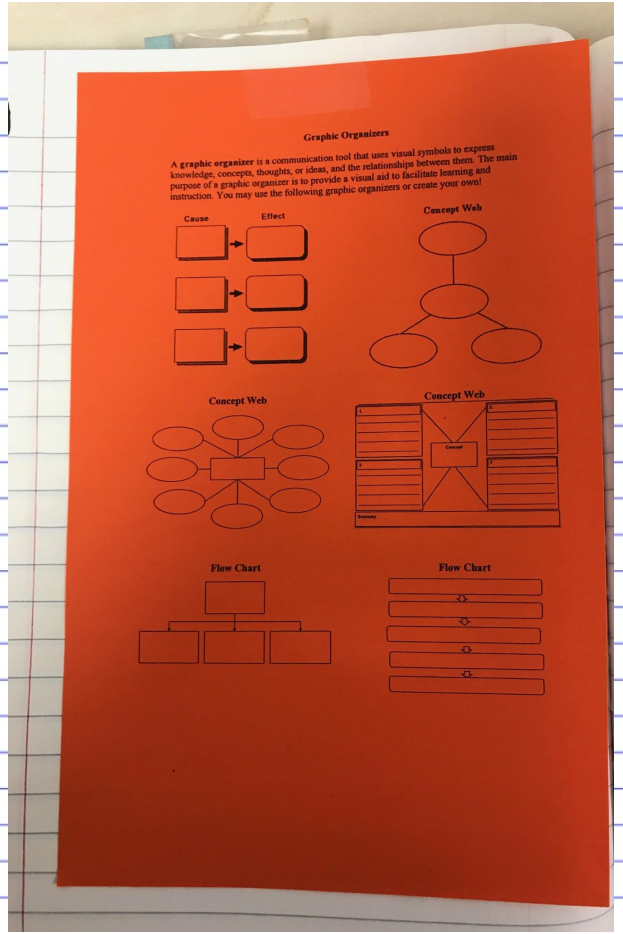
E

TOOLS

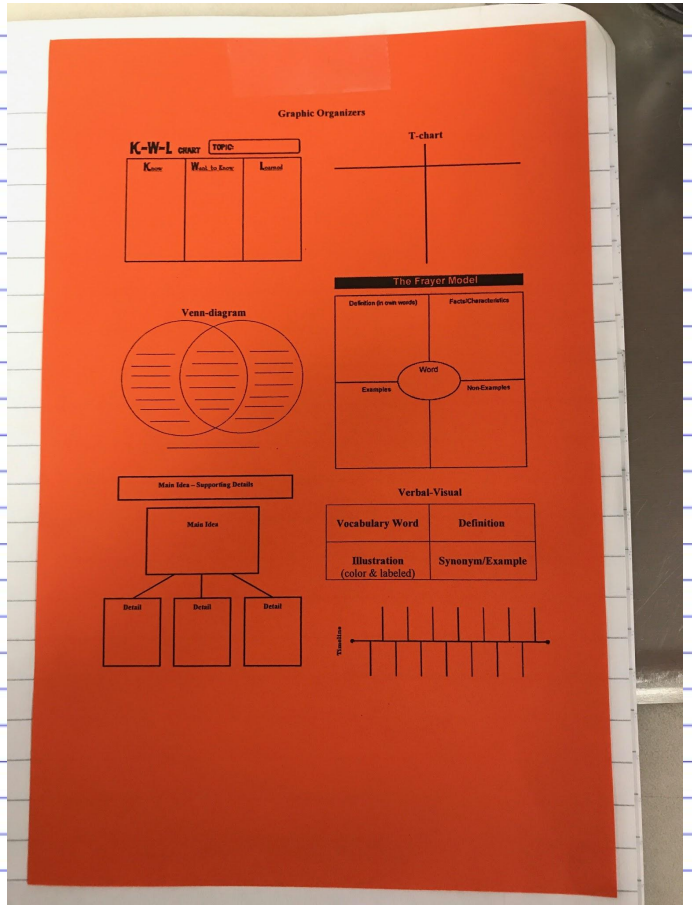
TOOLS

F

G


Graphic Organizers
A graphic organizer is a communication tool that uses visual symbols to express knowledge, concepts, thoughts, or ideas, and the relationships between them. The main purpose of a graphic organizer is to provide a visual aid to facilitate learning and instruction. You may use the following graphic organizers or create your own!
Cause
Effect
Concept Web
Concept Web
Concept Web
Concept
Summary
Flow Chart
Flow Chart

H


Graphic Organizers
K-W-L CHART
TOPIC:
T-chart
The Frayer Model
Definition (in own words)
Facts/Characteristics
Word
Examples
Non-Examples
Venn-diagram
Main Idea – Supporting Details
Main Idea
Detail
Detail
Detail
Verbal-Visual
Vocabulary Word
Definition
Illustration
(color & labeled)
Synonym/Example
Timeline

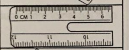
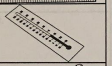
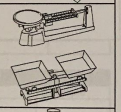
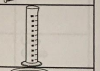
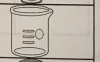
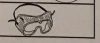
I

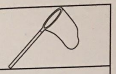
Scientific Investigation and Reasoning Skills

SAFETY RULES

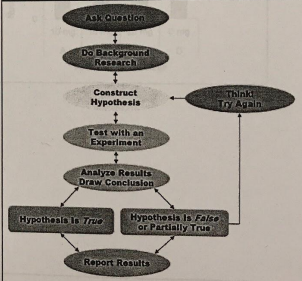
- Always follow directions.
- Report any accident or injury to the teacher.
- Always clean up your work area.
- Collect all materials before starting a lab.
- Wear safety goggles and rubber gloves when instructed to do so.

EQUIPMENT

Vocabulary	Definition	Example
Calculator	Used to calculate mathematical problems	
Hand Lens	Makes smaller objects look bigger	
Metric Ruler	Measures length	
Thermometer	Measures temperature	
Balance	Measures mass	
Graduated Cylinder	Measures volume	
Beaker	Measures volume	
Compass	Indicates direction	
Stopwatch	Keeps track of time passed	
Goggles	Protects eyes	

Collection Net	Catches insects	
Sound Recorder	Records and plays back sound	
Camera	Captures images	
Hot Plate	Heats up substances	
Magnet	Attracts magnetic objects	

EXPERIMENTAL DESIGN



EXPERIMENTAL SET UP

Vocabulary	Definition	Example
Variable	Conditions that change to affect the outcome of an experiment	
Control Group	Standard of comparison for testing the results of an	

J

Categories 1 and 2 – Matter, Force, Motion, and Energy

PHYSICAL PROPERTIES

Vocabulary	Definition	Example
Matter	Anything that has mass and takes up space	Water Steam Ice
Property	Description	Example
Physical State	Form of matter	Solid Liquid Gas
Relative density	Comparison of density float in water < density of water sink in water > density of water	
Solubility in water	Ability to dissolve in water Sugar dissolves in water but sand does NOT	
Mass	Amount of matter in an object	Grams
Weight	Amount of gravity on an object	Pounds Newtons
Volume	Amount of space an object takes up	Liters
Magnetism	Ability to be attracted to magnets	Iron
Conduction	Ability to carry heat, electricity, or sound	Metals
Insulation	Unable to carry heat, electricity, or sound	Ice chest
Vocabulary	Definition	Example
Boiling Point	Liquid to gas	Water 100°C
Freezing Point Melting Point	Liquid to solid	Water 0°C

STATES of MATTER

State	Example	Energy	Shape
Solid	Ice	Low	Fixed  Solid
Liquid	Liquid Water	Medium	Shape of container  Liquid
Gas	Steam	High	Fills space  Gas

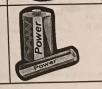
CHANGES

Vocabulary	Definition	Example
Physical Change	A change that alters the appearance of a substance but the substance still remains the same	Cutting paper Freezing water

MIXTURES AND SOLUTIONS

Vocabulary	Definition	Example
Mixture	2 or more substances mixed together that can be physically separated; some mixtures keep the properties of their ingredients	Granola Lemonade
Solution	Mixture in which one substance is dissolved in another; has the same physical properties throughout; properties may be different from their ingredients	Saltwater Tea
Solution		
Dissolve	A powder evenly distributed throughout a liquid	Kool Aid in water
Dilute	Add water	

ELECTRICITY

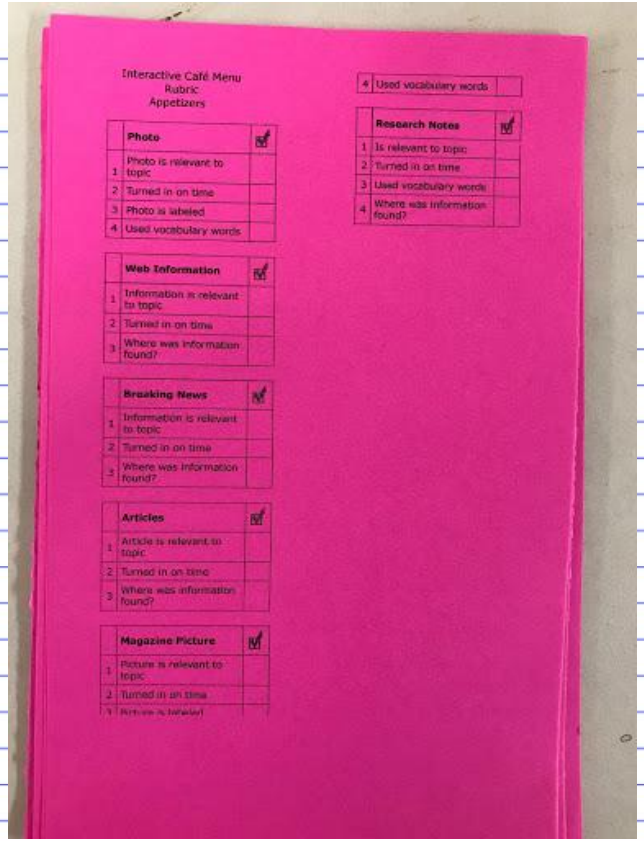
Vocabulary	Definition	Example
Electricity	Energy that travels through wires in a circuit producing light, heat, or sound	
Complete Circuit	Closed system that allows electricity to flow	
Battery	Source of electricity that is stored	

K

L

STUDENTS WILL ADD STUDY GUIDE TO THESE PAGES AT A LATER DATE

M



Interactive Café Menu
Rubric
Appetizers

	Photo	☑
1	Photo is relevant to topic	
2	Turned in on time	
3	Photo is labeled	
4	Used vocabulary words	

	Web Information	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Where was information found?	

	Breaking News	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Where was information found?	

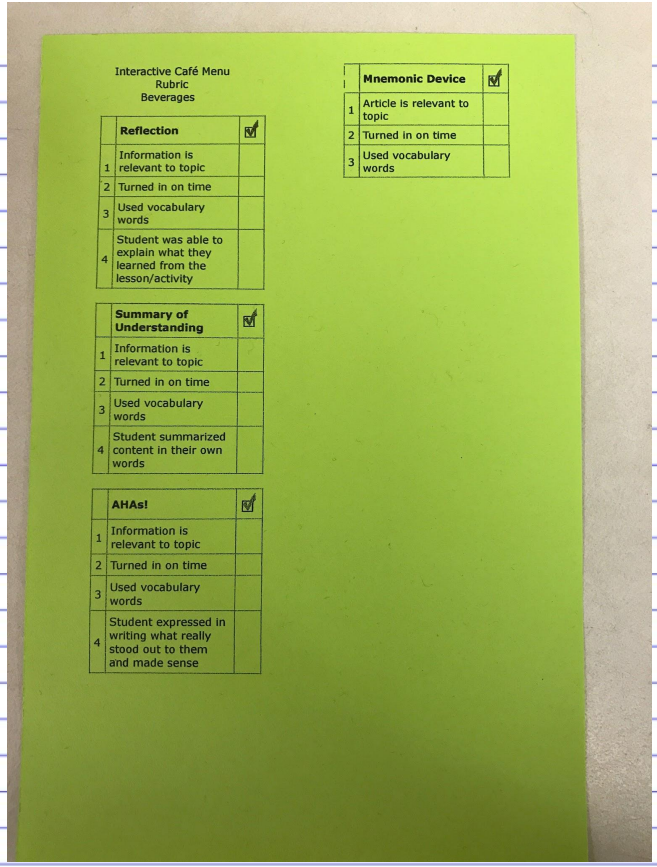
	Articles	☑
1	Article is relevant to topic	
2	Turned in on time	
3	Where was information found?	

	Magazine Picture	☑
1	Picture is relevant to topic	
2	Turned in on time	
3	Picture is labeled	

4	Used vocabulary words	

	Research Notes	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Where was information found?	

N



Interactive Café Menu
Rubric
Beverages

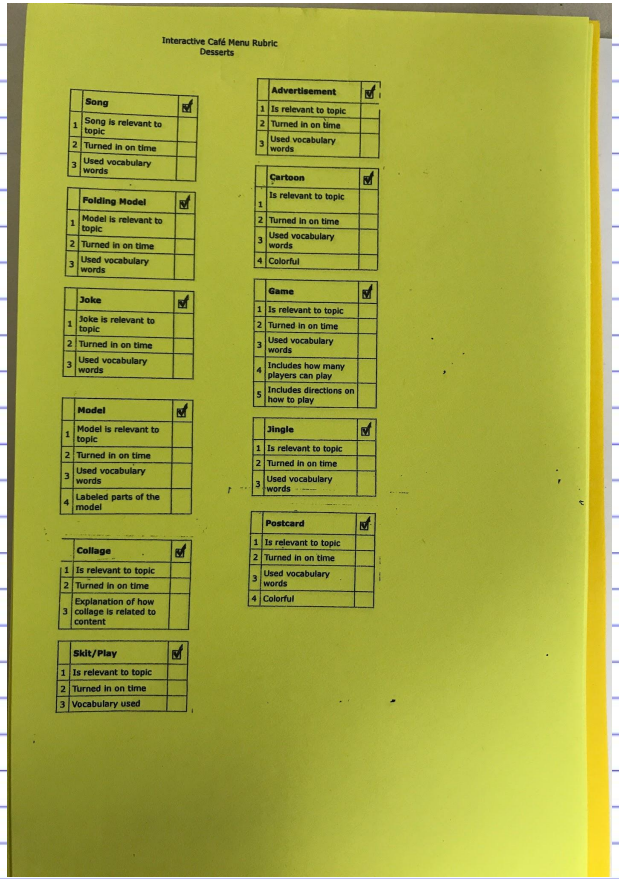
	Reflection	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Student was able to explain what they learned from the lesson/activity	

	Summary of Understanding	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Student summarized content in their own words	

	AHAs!	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Student expressed in writing what really stood out to them and made sense	

	Mnemonic Device	☑
1	Article is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

O



Interactive Café Menu Rubric
Desserts

	Song	☑
1	Song is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Folding Model	☑
1	Model is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Joke	☑
1	Joke is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Model	☑
1	Model is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Labeled parts of the model	

	Collage	☑
1	Is relevant to topic	
2	Turned in on time	
3	Explanation of how collage is related to content	

	Skit/Play	☑
1	Is relevant to topic	
2	Turned in on time	
3	Vocabulary used	

	Advertisement	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

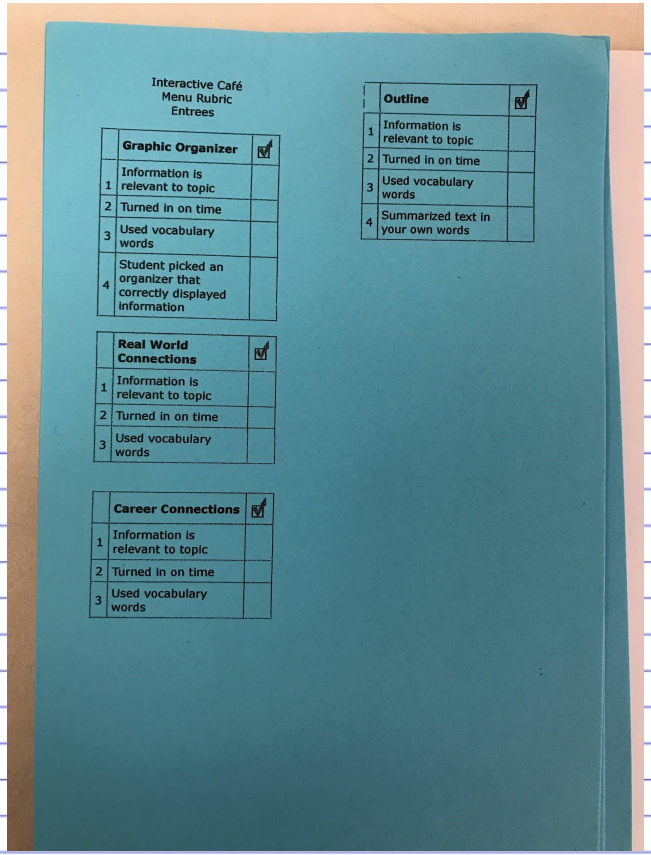
	Cartoon	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Colorful	

	Game	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Includes how many players can play	
5	Includes directions on how to play	

	Jingle	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Postcard	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Colorful	

P



Interactive Café
Menu Rubric
Entrees

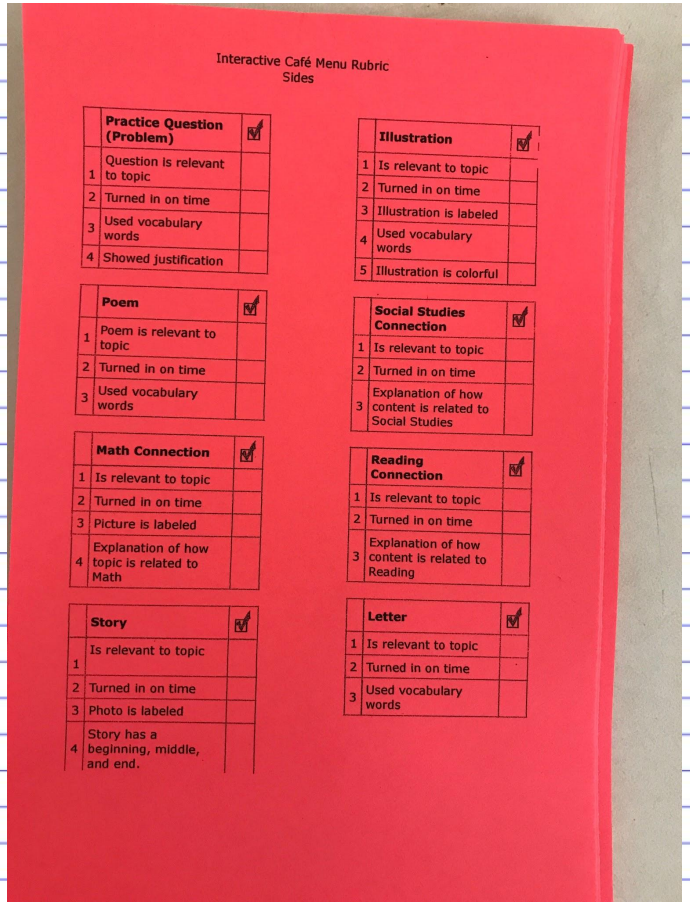
	Graphic Organizer	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Student picked an organizer that correctly displayed information	

	Real World Connections	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Career Connections	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Outline	☑
1	Information is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Summarized text in your own words	

Q



Interactive Café Menu Rubric
Sides

	Practice Question (Problem)	☑
1	Question is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	
4	Showed justification	

	Illustration	☑
1	Is relevant to topic	
2	Turned in on time	
3	Illustration is labeled	
4	Used vocabulary words	
5	Illustration is colorful	

	Poem	☑
1	Poem is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

	Social Studies Connection	☑
1	Is relevant to topic	
2	Turned in on time	
3	Explanation of how content is related to Social Studies	

	Math Connection	☑
1	Is relevant to topic	
2	Turned in on time	
3	Picture is labeled	
4	Explanation of how topic is related to Math	

	Reading Connection	☑
1	Is relevant to topic	
2	Turned in on time	
3	Explanation of how content is related to Reading	

	Story	☑
1	Is relevant to topic	
2	Turned in on time	
3	Photo is labeled	
4	Story has a beginning, middle, and end.	

	Letter	☑
1	Is relevant to topic	
2	Turned in on time	
3	Used vocabulary words	

R

STUDENTS WILL RECEIVE
PLICKERS CARD TO PLACE HERE
AT A LATER DATE

1

- STUDENTS SHOULD NOW HAVE PAGES NUMBERED.

- ALL HOMEWORK ASSIGNMENTS WILL BE PLACED ON THE LEFT SIDE OF THEIR JOURNAL.

ODD NUMBER PAGES ARE ON THE LEFT.

2

ALL OF STUDENT'S WORK DONE IN CLASS WILL BE PLACED ON THE RIGHT SIDE.

EVEN NUMBER PAGES ARE ON THE RIGHT.