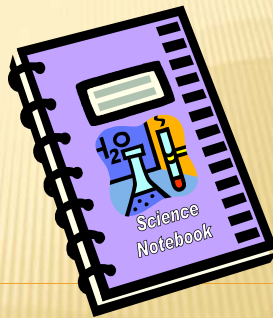


INTERACTIVE SCIENCE NOTEBOOKS



Mrs. King's
Science Class

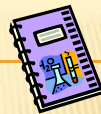
WHAT ARE INTERACTIVE SCIENCE NOTEBOOKS?



- ✗ A student thinking tool
- ✗ And organizer for inquiry questions and what you learned...
- ✗ A way to access and process the learning utilizing various modalities (writing, drawing, and discussion)
- ✗ A place for writing rough drafts based on hands-on learning
- ✗ A formative assessment tool for teachers

TUSD Science
Resource Center

WHY USE INTERACTIVE SCIENCE NOTEBOOKS?



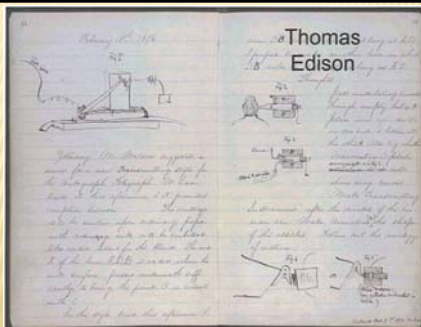
- ✗ Improve organization skills
- ✗ Improve critical thinking skills
- ✗ Express understanding creatively
- ✗ Great resource to study for tests & exams

WHY ARE WE USING INTERACTIVE SCIENCE NOTEBOOKS?



- ✗ Record data
- ✗ Study for tests
- ✗ Record progress
- ✗ Communication

Real Scientist Use Notebooks



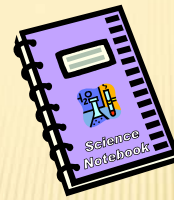
More Real Scientists





Impact Of Hands-on Science & Science Notebooks On Student Achievement

Research shows student understanding and literacy skills **improve** when students do hands-on minds-on science and use science notebooks to make sense of their science investigations.



Science Notebook Setup

Science Notebook Supplies



NO MARKERS PLEASE— they bleed through!

RIGHT SIDE? LEFT SIDE? WHAT GOES WHERE?

Left Side

Student Output

Lots of Color

The brain remembers things in color better.

This information will reflect what's on the right side of the page

- * Brainstorming
- * Concept Maps
- * Drawings
- * Reflective Writing
- * Questions
- * Data and Graphs
- * Songs
- * Poems
- * Data from Experiments (lab reports)
- * Cartoons or cartoon strips

Right Side

Teacher Input/Content

Blue or Black Ink/pencil

- * Information given in class
- * Lecture Notes
- * Video Notes
- * Textbook Notes
- * Lab Experiments
- * Summaries
- * Procedures/protocol for experiments
- * Classroom Specific Information
- * Guest speakers

"A BIT MORE ON THE LEFT"

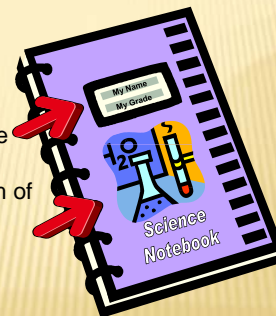
GETTING STUDENTS TO THINK ABOUT THEIR LEARNING

REFLECTION: Use Guiding Prompts:

- + What are you curious about?
- + What would you like to test?
- + What was the main idea?
- + What are the important details to remember?
- + How does this relate to your life?
- + What don't you understand?

Getting started - Step 1:

On the cover, write your name and period #.
Draw a diagram of something that reminds you of science.



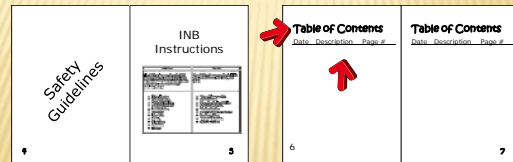
Step 2:

- Starting with the first page, number the first 50 pages. Numbers should be small and at the **bottom outside corner** of every page, starting with the author page.



Step 3:

At the top of pages 6 & 7 write Table of Contents. Divide each page into 3 columns, date, description, page #.



Next Step

- Organize the packet of papers given to you
 - Lab Report Template
 - Writing Prompts
 - Science Safety Rules
 - Lab Equipment, etc.
- Date and number every page
 - Use mrskingsbioweb.com daily assignment page to help put assignments in order if you need to.

Example page: Date each paper top out edge; number pages bottom outer edge

OUTPUT (student interpretation/ drawing, etc.) INPUT (notes from teacher)

Notes: Examples of "Input"

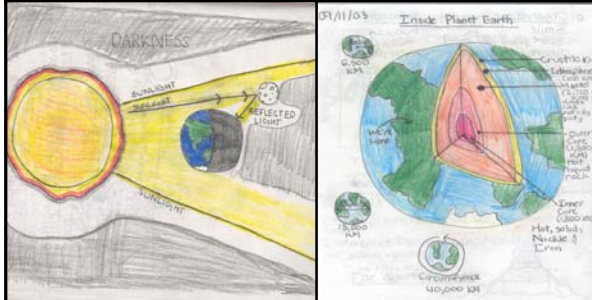
On the Right Side

HANDOUTS

On the Right Side

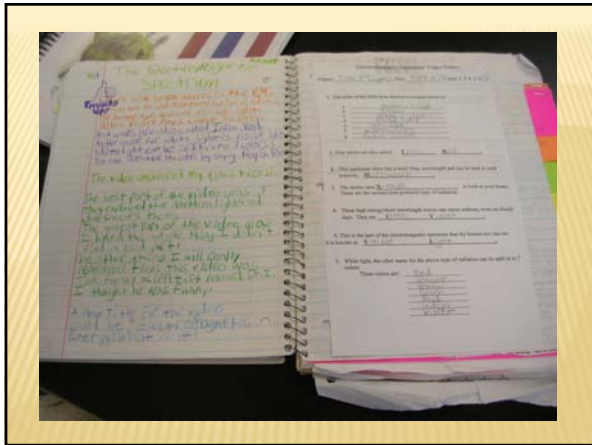
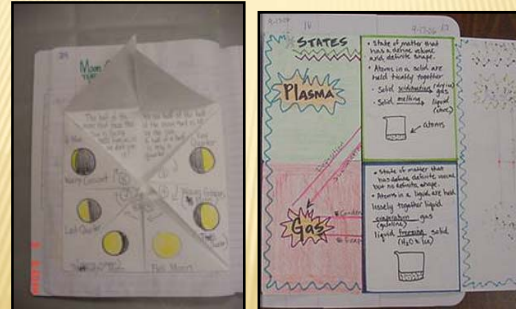
DRAWINGS/ILLUSTRATIONS

On the Left Side

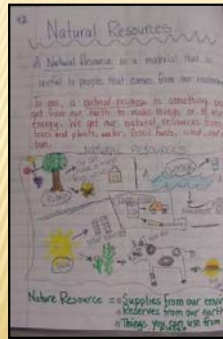


FOLDABLES

On the Left Side

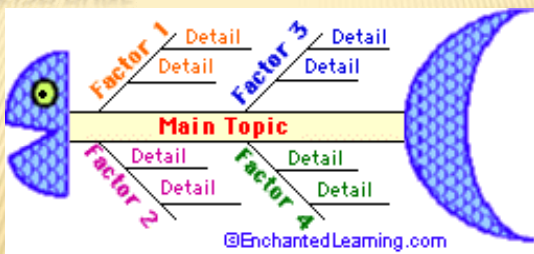


LEFT SIDE

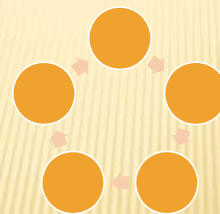


- ✘ Example of student summary
- + Draw
- + Add color

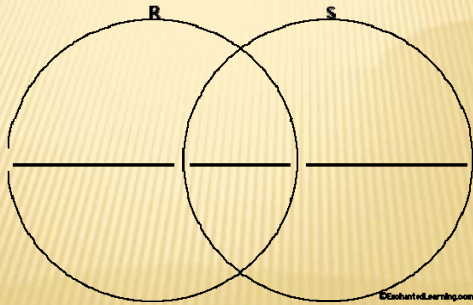
FISH BONE



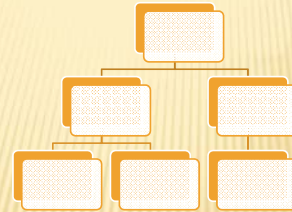
FLOW CHART



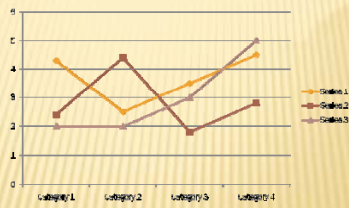
VENN DIAGRAM



HIERARCHY / TREE



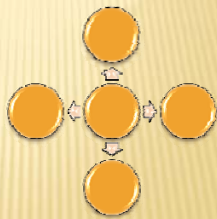
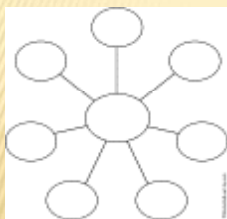
GRAPHS



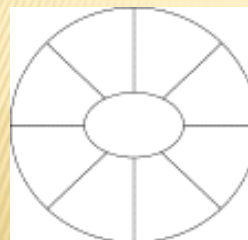
T- CHART

| Team A | Team B |
|--------|--------|
| | |

WEB



WHEEL



**WE ARE READY
TO GET ORGANIZED!**

