

# Keeping Interactive Notebooks in Science - The Left Side

Interactive notebooks will be used in class daily to help you learn and remember important science concepts. *Why do they work?* This notebook style uses both the right and left sides of the brain to help you sort, categorize, remember and creatively interact with the new knowledge you are gaining. The more you process information the more you begin to understand it. This leads to longer retention.

## What does on the left side?

**INPUT GOES ON THE LEFT SIDE!** Input is all the information that you are supposed to learn. Some examples of input include the following:

- Notes from a lecture or guest speaker
- Text or other source
- Vocabulary words
- Video and film notes
- Lab information and procedures
- Procedures
- Readings
- Questions and answers
- Sample problems

## The Keys to Fantastic Right Sides

- LEFT sides have **ODD** numbered pages. Always start the page with the date and title at the top of the page.
- The left side is for writing down information you are given in class. Use Cornell notes for lecture, discussion, text, sample problems, etc. Write up your study questions ASAP.
- Write legibly. Use highlighting and color to make important information stand out.
- Always use color (minimum of three per page) for learning. It helps the brain learn and organize information (no markers).
- Write summaries at the bottom of each page of notes to reduce the amount of information you have to study.

## Costa's Levels of Thinking

- Used for writing student developed questions on Cornell notes.

### **Level 1 – Introduction of Knowledge**

Define, Describe, Identify, List, Name, Observe, Recite, Scan, Provide

### **Level 2 – Practice Knowledge Learned**

Analyze, Compare, Contrast, Group, Infer, Sequence, Synthesize, Assemble, Show

### **Level 3 – Demonstrates Mastery of Knowledge**

Apply, Evaluate, Hypothesize, Imagine, Judge, Predict, Speculate, Compose, Propose

# Keeping Interactive Notebooks in Science - The Right Side

The right page demonstrates your understanding of the information from the left side of the page. You work with the input and interact with the information in creative, unique and individual ways. The right side incorporates and reflects how you learn science as well as what you learn in science. The 12"Clock" questions below help focus your attention and guide your learning of the science content and concepts.

## What does on the left side?

**OUTPUT goes on the right side and could include:**

<ul style="list-style-type: none"><li>● Biography posters</li><li>● Brainstorming</li><li>● Concept Maps</li><li>● Discovery Headlines</li><li>● Riddles</li><li>● Illustrations</li><li>● Cartoons</li><li>● Poetry and songs</li><li>● Metaphors and analogies</li><li>● Venn diagrams</li><li>● Data and graphs you generate</li><li>● Analysis writing</li><li>● Reflection writing</li></ul>	<ul style="list-style-type: none"><li>● Quick writes</li><li>● Four-square analogies</li><li>● Mnemonics</li><li>● Flowcharts</li><li>● Pictographs</li><li>● Significant statements</li><li>● Drawings</li><li>● Graphic Organizers</li><li>● Writing Prompts</li><li>● Your Questions</li><li>● Other creative avenues for processing information</li></ul>
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## Things to Know About Right Sides

- Right sides have EVEN-numbered pages. Every right-side page gets used and relates to a left side.
- Always use color (minimum of three per page) for learning. It helps the brain learn and organize information (no markers).
- Quizzes and other summative assessments are right-side items.
- Homework problems are right-side items (but they don't take the place of processing your notes!).

## CLOCK EXAMPLES

At times you will be asked to complete a "clock example" about a given topic. Sometimes, you will get to choose, and other times the teacher will choose for you. When completing a clock example always use the entire page and use multiple colors.

12, Make a graphic organizer to clarify this information.

11. Elaborate on the topic.

10. Explain the application of this information to a real life situation.

9. Make vocabulary cartoons from this topic.

8. Create a concept map to show the relationships within this topic.

7. Compare and contrast 2 ideas with a Venn diagram.



1. Write a science fiction story.

2. Paraphrase this information into 2 sentences.

3. Create and solve 3 original problems.

4. Write four "What if..." statements about this topic

5. Create a visual illustration explaining this information.

6. Write a letter to \_\_\_\_\_ about this issue/topic