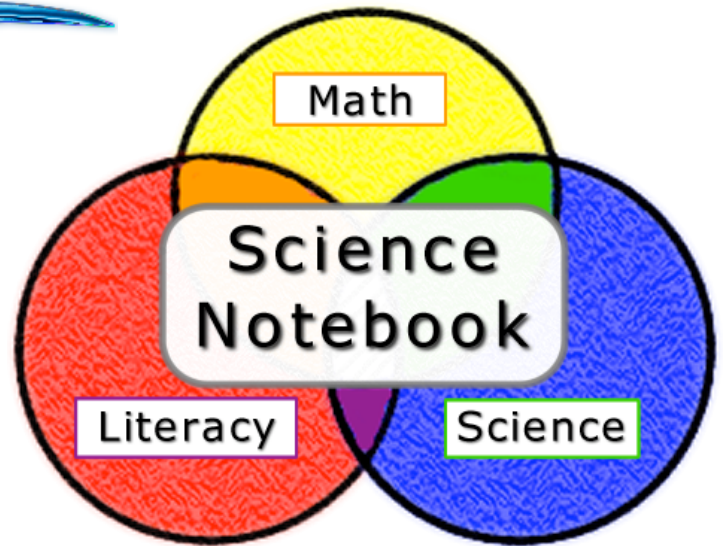
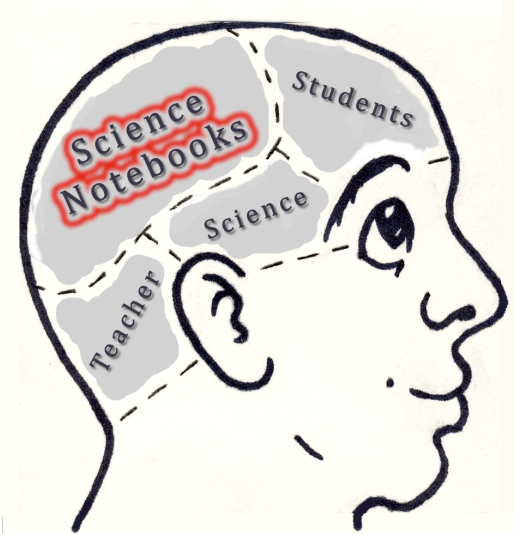


Sample Rubrics



Essential Components of a Science Notebook	"Using Science Notebooks in Elementary Classrooms" -- Michael P. Klentschy
Question, Problem, Purpose	<div>Which of these components could be used?</div>
Prediction	
Developing a Plan	
Observations, Data, Drawings, Charts	
Claims and Evidence	
Drawing Conclusions	
Reflections, Next Steps, New Questions	

Graphics by Sam Davis

Klentschy's Notebook Organization		
Element	Evidence	Student/Teacher Comments
Questions/ Problem/purpose		
Prediction		
Planning/procedures		
Data/ Observations		
Reflection/Summary/ Conclusion		
"I Wonder" Questions		

- This is a effective tool for teachers to use for several purposes.

- It can be used for teachers to monitor their instruction on different components of notebooking. When a unit of instruction is completed they can look for evidence of the components in several notebooks. If they **do not find evidence** of any components and lots of evidence of others they can deduce that **they have not given equal time to all components**.

- You can also **give this to the students** and have them look for the different components. This is a wonderful way for students to self assess. By requiring students to locate evidence of components they will be required to use higher level thinking skills.

- Students can also use this tool for **peer assessment** and give feedback to classmates using the checklist.

COMPARE AND CONTRAST

Writing Frame

<i>Start with how things are the same or similar.</i>	The _____ and the _____ are the same because they both _____.
<i>Add more details as needed.</i>	In addition, they both _____.
<i>Explain how they are different. You can compare the same property or characteristic in the same sentence. Use "and", "but", or "whereas" to set up the contrast.</i>	They are different because the _____, but the _____ does not.
<i>Add more detail as needed.</i>	Also, the _____, whereas the _____ does not.

Betsy Rupp Fulwiler

OBSERVATIONS ORGANIZER

Writing Frame

<i>Think of properties you can see such as size, shape, color, lines, texture, pattern, behavior...</i>	I observed
<i>Think of the other senses of smell, sound, touch, and perhaps taste!</i>	I noticed
<i>Connect it with something that you already know.</i>	It reminds me of
<i>Add more detail as needed.</i>	This is so because
<i>Be curious and ask questions you could investigate.</i>	I am curious about It surprised me that I wonder what would happen if

Betsy Rupp Fulwiler

Science Notebook Check - Nature of Science

CATEGORY	Excellent 5	Very Good 4	Satisfactory 3	Unsatisfactory 2	Must Improve 1
Table of Contents	Table of contents contains all items in order listed on classroom master sheet.	Table of contents is missing 1-2 items and/or some items are out of order.	Table of content is missing 3-4 items and/or some items are out of order.	Table of contents is missing 5+ items and/or items are out of order.	Table of content is missing.
Vocabulary	Vocabulary list is complete, contains all words on classroom master list and all words have been defined.	Vocabulary list is missing 2-3 words or at least 3 words are undefined.	Vocabulary list is missing 4-5 words or 3-5 words are undefined.	Vocabulary list is missing 6-10 words or 6-10 words are undefined.	Vocabulary list is missing, or more than 10 words are missing, or more than 10 words are not defined.
Content Pages	All content pages are in the notebook in the correct order complete.	There are 1-2 content pages missing or out of order.	There are 3-4 content pages missing or out of order.	There are 5-6 content pages missing or out of order.	There are 7+ content pages missing.
Neatness	Student exhibits best effort and has taken the time to keep notebook neat and up-to-date.	Students has done a good job of keeping notebook neat and up-to-date.	Some of the writing is very difficult to read, pages are doodled, messy or unorganized.	Notebook needs to be cleaned up and organized. Student has exhibited little effort to maintain notebook.	Virtually no effort has been exerted to keep notebook up to date.
Overall Grade	Student has earned between 18 and 20 points. Grade is an A.	Student has earned between 15 and 17 points. Grade is a B.	Student has earned 13 or 14 points. Grade is a C.	Students has earned 11 or 12 points. Grade is an N.	Student has earned 10 or less points. Grade is a U.

3rd Grade Science Notebook

CATEGORY	4	3	2	1
Participation	Used time well in class and focused attention on the investigation.	Used time pretty well. Stayed focused on the investigation most of the time.	Did the investigation but required multiple reminders to remain on task.	Participation was minimal.
Illustrations	Illustrations are neat: _____ Enhance understanding of the investigation: _____ Include accurate labels: _____	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	More than two of the previous standards are not met: _____
Organization	Table of Contents is up to date: _____ Pages are numbered accurately: _____ Glossary is up to date: _____ Overall appearance of neatness: _____	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	More than two of the previous standards are not met: _____
Scientific Content: Vocabulary	All introduced terms are used in entries: _____ Spelled correctly: _____	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	Entries are incomplete.
Scientific Content: Concepts	Questions are answered completely; answer shows understanding of introduced concepts.	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	Entries are incomplete.
Writing: Content	Entries read logically; ideas are clear and on topic.	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	Entries are incomplete.
Writing: Conventions	Third grade expectations are followed for capitalization: _____ Punctuation: _____	One of the previous standards are not met: _____	Two of the previous standards are not met: _____	Entries are incomplete.
Journal Check (circle number)	1st Check	2nd Check	3rd Check	Final Check

4th Grade Science Notebook Rubric

CATEGORY	Approaches (2)	Meets (3)	EXCEEDS (4)
Word Bank	I am missing some words or definitions.	I include all words and definitions.	My Science Notebook has 1. ALL words and definitions 2. Pictures or sentences that help explain words 3. words underlined or highlighted throughout my notebook writing that shows I use and understand them
Predictions	I can work with my class to make a prediction.	I can make a prediction on my own that makes sense.	I can make many predictions that make sense and I give explanations to support my prediction.
Data	1. My data has missing parts and/or Some data is irrelevant.	I record all essential information and use a format to organize the information.	I have a very useful format to organize all data.
Drawings	My drawings are missing some basic parts and/or labels.	All my drawings include important parts and labels.	My drawings have many details and clear, accurate labels.
Conclusions/Reflections	I did not answer the focus question and/or I am a little off-topic.	I summarized the BIG idea of the investigation in the answer to the question. When reminded, I write connections to what I know in real life.	I create and write interesting real-life connections on my own.
Self-Assessment	I need to be repeatedly reminded to use the rubric and check my work.	When the teacher reminds me, I use the rubric to judge my work and add information and detail to my Science Notebook.	I use the rubric to judge my work and add details or new information to my Science Notebook on my own without having to be reminded by the teacher.

5th Grade Science Notebook Rubric

CATEGORY	4	3	2	1	0
Notebook Complete	Folder complete including Table of Contents, page headings, dates and page numbers. Hand-out completed, dated and glued into folder in correct location.	Information seems to be complete; however, 1 or 2 are items missing.	Information incomplete. Missing 3 or 4 items.	Information incomplete. Missing 5 or 6 items.	More than 6 items missing.
Organized	All items are in order, formatted correctly and organized according to the Table of Contents	Some materials in order, formatted correctly and organized.	Less than half of the materials in order, formatted correctly and organized.	Materials not in order, formatted correctly and organized.	Not organized at all.
Turned in on time	Folder turned in on time.	Folder turned in 1 day late	Folder turned in 2 days late	Folder turned in 3 days late	More than 3 days late
Neatness	All materials neatly written and are legible. Reader can read and understand all material.	Some materials neatly written and are legible.	Less than half of the materials are neatly written and are legible.	Only a few items were neatly written.	None were neatly written.

5th Grade Science Notebook Rubric

7th Grade Science Notebook Check

CATEGORY	4	3	2	1
Content	All required elements (vocabulary, reflection questions, in-class note and homework) are complete.	Most required elements are complete, but all are thoughtfully done.	Most required elements are present, but may show a lack of detail or effort.	Several required elements are missing, incomplete, or show very little effort.
Consistency	Clear, accurate, dated notes are taken regularly.	Dated, clear, accurate notes are taken occasionally.	Dated, notes are taken occasionally, but are often incomplete or inaccurate.	Notes rarely taken or of little use.
Organization	Notebook is neatly written and clearly well organized, with descriptive page headings and a separate vocabulary section. Key information can be easily found.	Notebook is mostly well organized. Key information can be found with only a little searching.	Some effort was made to organize the notebook, but information is generally difficult to locate.	Little effort was made to organize thoughts in a useful way.