

Name: \_\_\_\_\_

## Research Paper Rubric

	4	3	2	1
<b>Content and Focus</b>	<ul style="list-style-type: none"> <li>Exceptionally clear, focused, interesting thesis.</li> <li>Strong, rich supporting details and examples that prove thesis.</li> <li>A meaningful conclusion explaining the importance of the research and how it can be used.</li> </ul>	<ul style="list-style-type: none"> <li>Clear thesis which maintains a consistent focus from beginning to end.</li> <li>Specific supporting details are present.</li> <li>A clear conclusion as to why the research is important.</li> </ul>	<ul style="list-style-type: none"> <li>Contains thesis but with inconsistent focus.</li> <li>Generalized supporting details that prove thesis.</li> <li>Conclusion tends to summarize research.</li> </ul>	<ul style="list-style-type: none"> <li>Thesis statement lacks clarity and focus.</li> <li>Inadequate or missing supporting details.</li> <li>Missing a summarizing conclusion.</li> </ul>
<b>Organization</b>	<ul style="list-style-type: none"> <li>Strong introduction and conclusion.</li> <li>Consistent and coherent logical progression.</li> <li>Uses clear and skillful transitions.</li> </ul>	<ul style="list-style-type: none"> <li>Clear introduction and conclusion.</li> <li>Illustrates some consistency and shows some logical progression.</li> <li>Uses clear transitions.</li> </ul>	<ul style="list-style-type: none"> <li>Introduction and conclusion is present but not clear.</li> <li>Show some attempt of consistency and order. Paper shows attempt of transitions between paragraphs.</li> </ul>	<ul style="list-style-type: none"> <li>Unable to clearly identify introduction and conclusion.</li> <li>Lack of consistency and order.</li> <li>Paper shows little or no attempt of transitions between paragraphs.</li> </ul>
<b>Style</b>	<ul style="list-style-type: none"> <li>Written in formal language (avoids slang completely).</li> <li>Elaborate and colorful language.</li> <li>Consistently strong and varied sentence structure.</li> <li>Direct quotes support student's ideas.</li> <li>Paper written in student's own words.</li> </ul>	<ul style="list-style-type: none"> <li>Majority of paper written in formal language.</li> <li>Language appropriate to topic.</li> <li>Words convey intended message.</li> <li>Direct quotes support student's ideas.</li> <li>Majority of paper written in student's own words.</li> </ul>	<ul style="list-style-type: none"> <li>Some use of formal language recognized; informal language is dominant.</li> <li>Most language is appropriate to topic.</li> <li>Able to get vague idea of message.</li> <li>Some parts of paper written in student's own words.</li> </ul>	<ul style="list-style-type: none"> <li>Paper frequently uses informal language.</li> <li>Language is not appropriate to topic.</li> <li>Message is unclear.</li> <li>Majority of paper is plagiarized.</li> </ul>
<b>Sources/Format</b>	<p>Follows MLA guidelines:</p> <ul style="list-style-type: none"> <li>Uses 5 or more cited sources.</li> <li>Sources meet the guidelines for types of sources.</li> <li>All parenthetical documentation is MLA correct (author's name, pg. #).</li> <li>Works Cited page is MLA correct.</li> <li>All researched info is documented.</li> </ul>	<p>Follows MLA Guidelines with few exceptions:</p> <ul style="list-style-type: none"> <li>3-4 cited sources used.</li> <li>Sources meet the guidelines for types of sources.</li> <li>Few errors noted in parenthetical documentation.</li> <li>Majority of Works Cited page is MLA correct.</li> <li>Most research info is Documented.</li> </ul>	<ul style="list-style-type: none"> <li>Inconsistent use of MLA style guidelines.</li> <li>Less than 3 cited sources used.</li> <li>Majority of parenthetical documentation done incorrectly.</li> <li>Random MLA documentation.</li> <li>Rarely documents sources.</li> </ul>	<ul style="list-style-type: none"> <li>Fails to follow MLA style Guidelines.</li> <li>Less than 3 cited sources used little or no parenthetical documentation.</li> <li>Works Cited page is not understandable.</li> </ul>
<b>Conventions</b>	<p>Superior editing. Rarely makes errors in the following areas:</p> <ul style="list-style-type: none"> <li>Spelling and mechanics.</li> <li>Correct usage and grammar.</li> </ul>	<p>Careful editing. Makes few errors in the following areas:</p> <ul style="list-style-type: none"> <li>Spelling and mechanics.</li> <li>Correct usage and grammar.</li> </ul>	<p>Some evidence of editing:</p> <ul style="list-style-type: none"> <li>Extensive spelling and grammatical errors.</li> </ul>	<p>Poor editing:</p> <ul style="list-style-type: none"> <li>Spelling and grammatical errors make it difficult to read paper.</li> </ul>

Score: \_\_\_\_\_ / 4

Evaluated by: \_\_\_\_\_ Date: \_\_\_\_\_

# Science Research Paper Rubric

**Jennifer Yeo,Tang Wee Teo,Kok-Sing  
Tang**



## **Science Research Paper Rubric:**

**Rubrics for Assessing Student Achievement in Science Grades K-12** Hays B. Lantz, 2004-02-06 I recommend Rubrics for Assessing Student Achievement in Science Grades K 12 to any school district that is moving toward a standards based curriculum It will serve as a valuable tool for assessing student learning Grace Cisek Director of Mathematics and Science Curriculum Chester County Intermediate Unit PA At last science educators will now be able to use custom made rubrics to assess and evaluate student performance in the standards based science classroom Combining clarity detail utility and practicality veteran educator and author Hays B Lantz Jr offers the most complete collection of evaluation and assessment tools in science education available today This concise handbook was designed to improve the quality and uniformity of evaluation as well as assessment of student progress Written in language appropriate for both students and teachers in grades K 12 there are over 100 ready to use performance lists holistic rubrics and analytic rubrics that contain clear descriptions of the particular traits and qualities desired in student products and performances Key features distinguishing this book include Scoring tools for a wide range of products and performances found in effective science classrooms and programs Assessment tools that differentiate by learning levels providing a scaffolding of increasingly complex expectations across the grades Years of extensive field testing of the evaluative criteria Rubrics for Assessing Student Achievement in Science Grades K 12 is a valuable resource that will help to measure what students know and are able to do in the science classroom It will yield more consistent and defensible judgments more precise feedback and sharper student learning and performance

**Teaching Writing With Rubrics** Laura A. Flynn, Ellen M. Flynn, 2004-03-29 What a gift I used your book from the first day Using your guidelines I am now developing my own units and rubrics Rebecca Kennerly Student Resident Teacher Program University of New Mexico Take the guesswork out of writing instruction and assessment The step by step instructions scheduling guidelines lesson plans rubric assessments and reproducible forms in this guide are the result of years of research planning and fine tuning in the classroom Inspiring student creativity while addressing standards and meeting the needs of every student has never been so easy Special features include Step by step instructions on how to set up a classroom writing program Eleven comprehensive classroom tested lesson plans Methods for adapting rubrics for high school students gifted students English Language Learners and students with learning disabilities Strategies for evaluating every step of the writing process from pre writing to final draft How to incorporate Six Trait Writing Discover the excellent writing your students can produce when provided with a rubric and challenged to do their best Once you have used the strategies and materials in this guide you may wonder how you ever got along without them

**Hands-on Physical Science** Laurie E. Westphal, 2008 Introduce your students to the fascinating world of physical science with these creative and adventurous experiments in chemistry and physics Grades 4 8

*Handbook of Research on Assessment Literacy and Teacher-Made Testing in the Language Classroom* White, Eddy, Delaney, Thomas, 2018-11-23 The evaluation of

student performance and knowledge is a critical element of an educator's job as well as an essential step in the learning process for students. The quality and effectiveness of the evaluations given by educators are impacted by their ability to create and use reliable and valuable evaluations to facilitate and communicate student learning. The Handbook of Research on Assessment Literacy and Teacher Made Testing in the Language Classroom is an essential reference source that discusses effective language assessment and educator roles in evaluation design. Featuring research on topics such as course learning outcomes, learning analytics, and teacher collaboration, this book is ideally designed for educators, administrative officials, linguists, academicians, researchers, and education students seeking coverage on an educator's role in evaluation design and analyses of evaluation methods and outcomes. Instructional Explanations in the Disciplines Mary Kay Stein, Linda Kucan, 2009-11-27 In today's climate of accountability and standards, increasing attention is focused on teacher quality with less emphasis on what teachers actually do to interest and engage students in learning. This path-breaking volume addresses this research problem with a clear definition and a content-specific analysis of the most essential teaching moment: the instructional explanation for vital new perspectives on educational method and process. Rich in examples from science, mathematics, and the humanities, Instructional Explanations in the Disciplines explores a variety of interactive contexts for teaching and learning which may be collaborative between teachers, students, and others performed in non-classroom settings or assisted by technology. The book's subject-matter-specific framework reveals key elements in the process such as carefully examining the question to be answered, making connections with what is already known, and developing examples conducive to further understanding. Instructional Explanations in the Disciplines is a valuable addition to the education library, giving researchers new methods of unpacking educational process as few books before it. **Inquiry: The Key to Exemplary Science** Robert Yager, 2009-06-17 Handbook of Research on Science Literacy Integration in Classroom Environments Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected, advanced, and globalized than ever before. In order to adequately prepare students for their future, educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts. The Handbook of Research on Science Literacy Integration in Classroom Environments is a pivotal reference source that provides vital research on the importance of cross-curriculum discipline connections in improving student understanding and education. While highlighting topics such as curriculum integration, online learning, and instructional coaching, this publication explores practices in teaching students how to analyze and interpret data as well as reading, writing, and speaking. This book is ideally designed for teachers, graduate-level students, academicians, instructional designers, administrators, and education researchers seeking current research on science literacy adoption in contemporary classrooms. **Science Learning for All** National Science Teachers Association, Arlington, VA., 2001 Science Learning for All: Celebrating Cultural Diversity covers three must-know areas of multicultural science.

education Inclusive curriculum design multicultural teaching strategies language diversity in science teaching and learning You ll find fresh ideas on how to meet the science learning needs of all students You ll also discover focused teaching techniques tips on handling language diversity practical insights on giving students an appreciation of the contributions that all cultures make to our scientific heritage and more Back Cover Helping Scientists to Communicate Well for All Considered: Strategic Science Communication in an Age of Environmental and Health Crises Scott McWilliams, Marcia Allison, Marina Joubert, Ingrid Lofgren, Brianne Suldovsky, 2022-09-16 *Assessment and ESL* Barbara Law, Mary Eckes, 2007 The revised and expanded edition of this bestseller is a comprehensive easy to read resource that explores the theory and practice of ESL assessment Written for anyone working with English language learners elementary and secondary mainstream and ESL this new edition of *Assessment and ESL* presents ideas and tools for alternative assessment The authors offer methods of documenting the learning and progress of second language learners learning and progress that may not always be apparent at first glance Like the previous edition the new edition is filled with real stories about students who take baby steps progress in leaps and bounds toward proficiency and eventually learn to fly on their own **How to Assess Authentic Learning** Kay Burke, 2009-10-07 Burke has challenged teachers everywhere to raise their standards and design classroom assessments that show evidence of understanding and performance on complex tasks The expert examples in this book provide teachers with a complete road map so that assessment is truly at the heart of instruction Diane Ray Assistant Director for Teacher Leader Development Professional Association of Georgia Educators Create assessments that meet state standards and target students learning needs For many years assessment was relegated to a secondary role in the educational process But with the increased emphasis on high stakes testing effective assessment has emerged as one of the major factors in raising student achievement In this latest edition of her bestseller renowned educator Kay Burke provides a wide range of updated easy to implement alternative assessments that address today s accountability requirements and focus on improving learning Designed for use across all content areas these formative assessments are rooted in the language of state standards and emphasize differentiating instruction to meet students individual learning needs Revised throughout with updated research this new edition helps K 12 teachers Build Response to Intervention checklists for struggling students Develop unit plans using differentiated learning and assessment strategies Create portfolios that emphasize metacognition Design performance tasks that motivate and engage students Construct rubrics that describe indicators of quality work Create tests that focus on higher order thinking skills Offering numerous applications and examples *How to Assess Authentic Learning* guides teachers in developing the assessment tools needed to help all students meet or exceed mandated academic standards Integrating Engineering and Science in Your Classroom Eric Brunsell, 2012 From the very first day you use them the design challenges in this compendium will spur your students too to jump right in and engage throughout the entire class The activities reinforce important science content while illustrating a range of STEM skills The 30 articles have been

compiled from Science and Children Science Scope and The Science Teacher NSTA's journals for elementary through high school Integrating Engineering and Science in Your Classroom will Excite students of all ages with activities involving everything from light sabers and egg racers to prosthetic arms and potatoes Apply to lessons in life and environmental science Earth science and physical science Work well in traditional classrooms as well as after school programs Next time you need an engaging STEM activity you'll be glad you have this collection to help you blend meaningful and memorable experiences into your lessons As Editor Eric Brunsell promises By exposing students to authentic engineering activities you can help students uncover the profession that makes the world work

**I-biology Ii Tm' 2006 Ed. , Trends in Teaching Experimentation in the Life Sciences** Nancy J. Pelaez, Stephanie M. Gardner, Trevor R. Anderson, 2022-05-11

This book is a guide for educators on how to develop and evaluate evidence based strategies for teaching biological experimentation to thereby improve existing and develop new curricula It unveils the flawed assumptions made at the classroom department and institutional level about what students are learning and what help they might need to develop competence in biological experimentation Specific case studies illustrate a comprehensive list of key scientific competencies that unpack what it means to be a competent experimental life scientist It includes explicit evidence based guidelines for educators regarding the teaching learning and assessment of biological research competencies The book also provides practical teacher guides and exemplars of assignments and assessments It contains a complete analysis of the variety of tools developed thus far to assess learning in this domain This book contributes to the growth of public understanding of biological issues including scientific literacy and the crucial importance of evidence based decision making around public policy It will be beneficial to life science instructors biology education researchers and science administrators who aim to improve teaching in life science departments Chapters 6 12 14 and 22 are available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com)

Improving Learning Through Assessment Rubrics: Student Awareness of What and How They Learn Gonsalves, Chahna, Pearson, Jayne, 2023-08-14 Assessment by rubrics has emerged as a tool with great potential to guide successful student learning from a competency based approach Rubrics as instruments that make it possible to share the criteria for carrying out learning and assessment tasks with students are excellent roadmaps for student learning largely because they allow students to know what they are expected to do and what they are expected to achieve by carrying out the learning tasks Improving Learning Through Assessment Rubrics Student Awareness of What and How They Learn contributes to the improvement of what is being evaluated by identifying the strengths as well as the weaknesses of the didactic use of rubrics in the assessment of university learning The book also provides a set of theoretical issues methodological elements and practical resources for the assessment of university learning using rubrics Covering topics such as active learning self assessment and teacher identity this reference work is ideal for administrators policymakers researchers scholars academicians practitioners educators and students

Scientific Argumentation in

Biology Victor Sampson, Sharon Schleigh, 2013 Develop your high school students understanding of argumentation and evidence based reasoning with this comprehensive book Like three guides in one Scientific Argumentation in Biology combines theory practice and biology content It starts by giving you solid background in why students need to be able to go beyond expressing mere opinions when making research related biology claims Then it provides 30 thoroughly field tested activities your students can use Detailed teacher notes suggest specific ways in which you can use the activities to enrich and supplement not replace what you re *Science Education Research and Practice in Asia-Pacific and Beyond* Jennifer Yeo, Tang Wee Teo, Kok-Sing Tang, 2017-10-16 This book is based on presentations at the International Science Education Conference ISEC 2014 It showcases a selection of the best papers by researchers and science teachers from the Asia Pacific region North America and the United Kingdom Centered on the theme of Pushing the boundaries Investing in our future they pursue new ways of helping learners appreciate the diversity and changes in science that result from a globalised world facing complex and diverse environmental and technological issues The chapters touch on various themes in science education that explore and investigate issues of scientific literacy societal challenges and affect and teacher professional development Its comprehensive themes make it a valuable textbook for graduate students of master s and Ph D programs It also appeals to pre service and in service teachers as a resource on innovative pedagogical practices and creative methods of professional development With a selection that emphasises the research practice nexus in education research it serves as an introductory handbook for teachers to connect with the current issues facing science education **Evidence-Based Librarianship** Elizabeth Connor, 2007-04-30 This book features case studies and active learning exercises related to using evidence based approaches in several types of academic libraries Evidence Based Librarianship is a vital reference to practicing librarians library science students and library science educators as it focuses on applying practice based evidence gleaned from users direct observation and research Peer reviewed case studies from leading academic librarians Active learning exercises for on the job training and library science education related to evidence based practice Detailed bibliography **An Editor's Guide to Writing and Publishing Science** Michael E. Hochberg, 2019 This contemporary guide is packed full of expert tips and suggestions which will make the reader think in a fresh creative and novel way about writing and publishing science **Research Methods for Science** Michael P. Marder, 2011-01-27 A unique introduction to the design analysis and presentation of scientific projects this is an essential textbook for undergraduate majors in science and mathematics The textbook gives an overview of the main methods used in scientific research including hypothesis testing the measurement of functional relationships and observational research It describes important features of experimental design such as the control of errors instrument calibration data analysis laboratory safety and the treatment of human subjects Important concepts in statistics are discussed focusing on standard error the meaning of p values and use of elementary statistical tests The textbook introduces some of the main ideas in mathematical modeling including order of

magnitude analysis function fitting Fourier transforms recursion relations and difference approximations to differential equations It also provides guidelines on accessing scientific literature and preparing scientific papers and presentations An extensive instructor s manual containing sample lessons and student papers is available at [www.cambridge.org/Marder](http://www.cambridge.org/Marder)

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