

Name: \_\_\_\_\_  
 Title of Lab or Project: \_\_\_\_\_

### Lab Report Rubric

	Excellent (20 pts)	Good (16 pts)	Subsquent (12 pts)	Needs Work (8 pts)	Not attempted (0)
<b>Introduction</b>	1. Includes the question (problem) to be answered 2. States hypothesis that is based on research and/or sound reasoning 3. Title is relevant	Some of the "excellent" conditions met	Only one of the 3 "excellent" conditions met	Introduction present, not meeting the conditions met	
<b>Methods</b>	1. Step-by-step procedure is included 2. Could be repeated by another scientist 3. Reimbued 4. No personal pronouns	3 of 4 of the "excellent" conditions met	2 of the 4 excellent conditions met	Must be difficult to repeat, reader must guess at how the data was gathered in experiment conducted	
<b>Data and Analysis</b>	1. Results and data are clearly recorded <b>organized</b> so it is easy for the reader to see trends 2. Measurements have <b>units</b> 3. Tables is drawn (see 4 below)	Results are clear and tabulated, trends are not obvious or there are minor errors in organization	Results are unclear, missing labels, trends are not obvious, disorganized, there is enough data to show the experiment was conducted	Results are disorganized or poorly recorded, do not make sense, not enough data was taken to justify results	
<b>Conclusions</b>	1. Hypothesis is rejected or accepted based on the data 2. <b>Summarizes</b> the lab experiment 3. <b>Errors</b> are addressed 4. <b>More</b> questions asked	3 of 4 of the "excellent" conditions met	2 of the 4 excellent conditions met	1 of the 4 excellent conditions met	
<b>Format and Lab Philosophy</b>	Lab report submitted as directed, and as time structure was followed, sections were observed, all safety protocols followed	Most of the excellent conditions were met, possibly minor errors in format or procedures	Some of the excellent conditions met, directions were not completely followed, lab sections may have been left undone or group not practicing good safety (both correct writing, graphs)	Student did not follow directions, provided unclear instructions, graded around in the lab, left a mess in equipment lab	
<b>Notes</b>	Total (max of 100)				

# Lab Report Rubric For Middle School

**DJ Losen**



## **Lab Report Rubric For Middle School:**

**Scoring Rubrics in the Classroom** Judith Arter, Jay McTighe, 2001 A practical guide to more effective assessment for improved student learning Learn how to be more consistent in judging student performance and help your students become more effective at assessing their own learning This book offers a practical approach to assessing challenging but necessary performance tasks like creative writing real world research projects and cooperative group activities Judith Arter and Jay McTighe experts in the field of assessment wrote *Scoring Rubrics in the Classroom* to help you achieve three main goals Clarify the targets of instruction especially for hard to define problem solving Provide valid and reliable assessment of student learning Improve student motivation and achievement by helping students understand the nature of quality for performances and products Each chapter is framed by an essential question and includes illustrative stories practical examples tips and cautions and a summary of key points and recommended resources for further information The resources section contains a wealth of rubrics to adopt or adapt Teachers and administrators will find this an essential resource in increasing teacher effectiveness and student performance

*Watershed Investigations: 12 Labs for High School Science* Jennifer Soukhome, Graham Peaslee, Carl Van Faasen, William Statema, 2009-04 Watershed Investigations 12 Labs for High School Science provides high school educators with a series of broad based hands on experiments designed to help students understand the relationships between human impact and local hydrology Covering a range of disciplines including geology chemistry Earth science botany and biology this volume gives educators lesson plans that will interest the student and meet a wide array of state and national curricular standards

*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      *Artificial Intelligence in Education* Andrew M. Olney,Irene-Angelica Chounta,Zitao Liu,Olga C. Santos,Ig Ibert Bittencourt,2024-07-01 This book constitutes the refereed proceedings of the 25th International Conference on Artificial Intelligence in Education AIED 2024 held in Recife Brazil in July 8 12 2024 Proceedings The 49 full papers and 27 short papers presented in this book were carefully reviewed and selected from 334 submissions The papers present results in high quality research on intelligent systems and the cognitive sciences for the improvement and advancement of education      *Becoming a Better Teacher* Giselle O. Martin-Kniep,2000 Provides K 12 educators with information on some of the most effective teaching and learning tools available today Each of these innovations has a long history of use and has been studied and evaluated in a variety of settings Innovations were chosen because they foster a student centered classroo      *Science the "write" Way* Jodi Wheeler-Toppen,2011 Writing skills are high on the list of real world requirements for all studentsOCoincluding science students Every scientific discipline needs professionals who can ably communicate in writing Scientists must be able to describe their proposed studies for funding considerations track their observations and results in their own notes describe their experimental protocols for their peers to replicate and synthesize their work to the wider world community      *Does Peer Review Improve Lab Report Quality in High School Science Students?* Melanie S. Acker,2011 My students are for the most part potentially very good writers However when I get these students their lab report writing skills are quite limited and therefore are very poor Focus for doing labs thus far in their science career has been how well they can perform the lab from verbal instructions not written instructions The students have a difficult time reading and understanding what the protocol wants them to do and they have an even more difficult time explaining what they performed during the lab activity in a lab report This project investigated how well the students discussed their course of action after performing the lab activity in a written report The students were given written lab protocols and were expected to follow the procedure and make observations along the way The labs were all completed in one 45 minute class period The students were then given one day in class to work on their lab report following the lab report rubric Appendix A Data collection for this project not only included lab report writing but what the students comfort levels were in different elements of the lab how well they reviewed their own work how well they reviewed other peer s work and how they felt about the whole lab report writing process throughout the year Several teachers were also asked to evaluate how well these particular students processed and followed directions in their classrooms as well The resulted indicated that by implementing a peer review session into the lab report writing process the report score significantly improved The students who struggled at the beginning of the process were now completing quality lab reports in half the time and the peer review rubrics were being scored with the highest marks Because of these positive outcomes I know that peer review is an integral part of the learning process to produce quality lab reports and I will continue to conduct

this practice in my classroom in years to come      Cases in Middle and Secondary Science Education Thomas R. Koballa, Deborah J. Tippins, 2004 This broad based volume highlights dozens of situations and challenges associated with middle school and secondary school science teaching along with the suggestions of experts for improving practice and stimulating creative thinking in a scientific vein After an introduction to the case based pedagogy ten chapters present three to four cases each all of which relate to a central theme The final chapter delineates a methodology for creating engaging instructional cases from one s personal teaching experience Through a study of the cases future and practicing science teachers can glean an understanding of prevailing instructional practices and convincing research based arguments with which to challenge current traditional approaches For future and in service science teachers at middle and secondary schools

*Science Instruction in the Middle and Secondary Schools* Eugene L. Chiappetta, Thomas R. Koballa, 2006 For science instruction in middle and secondary schools On Reserve for Edu 427      **Science Scope** ,2003      *Assessment of the Learning Cycle and Inquiry Based Learning in High School Physics Education* Russell Lauren Billings, 2001      *Beyond Standardized Testing* George W. Elford, 2002-10-23 Here s a fresh idea from an experienced testing professional that addresses the problem of the overuse of standardized testing Elford argues that so called test based reform has given rise to the cram curriculum and turned schools into test prep centers Overlooked are the classroom teachers who observe the actual work of students and are the primary and richest source of information on learning The author lays out a better approach to accountability using standards teacher judgments and the tools of the information age This is not an attack on standardized testing which supplies the only interpretable information the public has been able to attain Rather it recommends comprehensive computer based systems that link every teacher and classroom into their school district s data warehouse This system supports and utilizes the richest source of accountability information the presently untapped knowledge in the minds of teachers At the heart of the system are standardized teacher judgments related to content and performance standards and supported by standards based scoring rubrics that are integrated into a computer based instructional management information system Among the advantages the system offers are Students are graded on quality of their work not how they compare with other students The school or school district becomes the primary source of accountability information instead of the state Provides better information for college admissions Provides employers with a record to use that shows the link between school and work The technology for such a system is ready and waiting This book defines the urgent need for a computer based instructional information system to which every teacher is linked and calls upon innovative school leaders to embrace the idea      An Introduction to Standards-Based Reflective Practice for Middle and High School Teaching Elizabeth Spalding, Jesus Garcia, Joseph A. Braun, 2010-03-09 This easy to use introductory guide to teaching in contemporary middle and high schools provides teachers with the tools to become reflective practitioners It shows pre and inservice teachers how to use standards to choose instructional materials and methods that are appropriate with particular

students at a particular time in a particular setting for a particular purpose While the authors are specialists in English and social studies this resource is appropriate for aspiring middle and high school teachers of any subject With a personal voice that will appeal to readers this book Links directly to the most recent version of standards for beginning teachers published by the Council of Chief State School Officers CCSSO Illustrates how teachers can be reflective about rather than reactive to standards Features an autobiographical approach to help readers understand how prior educational experiences may shape their future teaching Contains numerous reflective vignettes by practicing teachers Classroom Assessment James H. McMillan,2004 This book provides prospective and current teachers with a concise non technical and practical guide to conducting a full range of high quality classroom assessments The text emphasizes assessment in the context of the realities of teaching and teacher decision making as well as on how assessment is integrated with instruction Assessment methods are integrated with instruction and presented according to when teachers evaluate students before during and after an instructional unit and the learning targets that are measured There is considerable emphasis on the nature of learning targets and how different assessments are most appropriate for different targets For each assessment technique suggestions for effective practice are presented with examples and case studies There are separate chapters on contemporary assessment techniques and issues such as performance and portfolio assessments as well as separate chapters on assessing affective targets and students with disabilities included in the regular classroom A balance is provided with traditional forms of assessment and the need for teachers to administer interpret and use results from standards based large scale assessments and other standardized tests *The Impact of Formative Assessment Techniques on the Instruction of the High School Biology Units of Photosynthesis and Cellular Respiration* Shanna Fawn Tury,2010 Middle School Journal ,2004 *The American Biology Teacher* ,2007 **The Science Teacher** ,2009 **Contexts of Teaching** Jesus Garcia,Elizabeth Spalding,Richard R. Powell,2001 This unique new book enters into the middle and high school teaching methods market with an intimate first person approach and an emphasis on reflective teaching Reader biography teaching philosophy and portfolio activities make this a practical book rich in applications Teaching is portrayed as a process of ongoing learning growth and development and a strong emphasis is placed on multiculturalism and diversity While most books tend to take a more traditional skills based approach Contexts of Teaching presents teaching methods from a constructivist inquiry perspective consistent with current educational trends Chapter topics include Knowing Middle and High School Students Rethinking Classroom Management considering Curriculum planning instruction Selecting Instructional Materials Teaching with Technology Implementing Instruction Strategies and Methods Assessing Student Learning Understanding the Role of Community Making a Difference in Today s Classrooms and Reflecting for Professional Renewal For teachers of middle and high school students **Announcer** American Association of Physics Teachers,2002

Eventually, you will extremely discover a extra experience and endowment by spending more cash. nevertheless when? complete you allow that you require to acquire those every needs taking into account having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will guide you to comprehend even more just about the globe, experience, some places, considering history, amusement, and a lot more?

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### **Lab Report Rubric For Middle School Introduction**

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web the function defined by  $f(x) = b^x$   $b > 0$   $b \neq 1$  is called an exponential function with base  $b$  and exponent  $x$  here the domain of  $f$  can be explained as a set of all real numbers let  $m$  and  $n$  be positive numbers and let  $a$  and  $b$  be real numbers then the

exponential function  $y = b^x$  is associated with the following properties the domain is

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web mar 27 2022 a common technique for solving equations with unknown variables in exponents is to take the log of the desired base of both sides of the equation then you can use properties of logs to simplify and solve the equation take the following equation to solve for t you should first simplify the expression as much as possible and then take

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web oct 3 2022 just as many physical phenomena can be modeled by exponential functions the same is true of logarithmic functions in exercises 75 76 and 77 of section 6 1 we showed that logarithms are useful in measuring the intensities of earthquakes the richter scale sound decibels and acids and bases ph

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