

Science Reasoning Rubric

		2 pts	1 pt	0 pt
Statement	Claim An assertion that something is true	Makes a claim that is sufficient to answer the question <u>and</u> is coherent.	Makes a claim that is sufficient to answer the question <u>or</u> is coherent.	Does not make a claim <u>or</u> makes an incoherent claim.
	or			
Argument	Explanation Describes how and why a phenomenon occurs	Provides an explanation that addresses how <u>and</u> why a phenomenon occurs	Provides an explanation that addresses how <u>or</u> why a phenomenon occurs	Does not provide an explanation.
	Reasoning Provides reasons the reader should accept your claim or explanation.	Includes <u>all</u> of the following: <ul style="list-style-type: none"> <input type="checkbox"/> Cites sufficient and relevant evidence to support the claim/explanation. <input type="checkbox"/> Describes how the cited evidence defends the claim/explanation. <input type="checkbox"/> Reader feels compelled to accept your argument. 	Includes <u>two</u> of the following: <ul style="list-style-type: none"> <input type="checkbox"/> Cites sufficient and relevant evidence to support the claim/explanation. <input type="checkbox"/> Describes how the cited evidence defends the claim/explanation. <input type="checkbox"/> Reader feels compelled to accept your argument. 	Includes <u>one or none</u> of the following: <ul style="list-style-type: none"> <input type="checkbox"/> Cites sufficient and relevant evidence to support the claim/explanation. <input type="checkbox"/> Describes how the cited evidence defends the claim/explanation. <input type="checkbox"/> Reader feels compelled to accept your argument.

Figure 2: Science Reasoning Rubric

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Michael Brown



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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 *Dialogic Collaborative Action Research in Science Education* Allan Feldman, Jawaher Alsultan, Katie Laux, Molly Nation, 2023-08-17 This engaging and practical book offers science teacher educators and K 12 science teachers alike the tools to engage in a dialogic mode of collaborative action research D CAR a collaborative mode of action research focused on teachers experiences with students reflection upon these experiences and peer learning Renowned science educator Allan Feldman and co authors from across numerous settings in K 12 science education present the theory methodology case studies and practical advice to support the use of D CAR as a means to enhance teachers normal practice and address the problems dilemmas and dissonances that science teachers must negotiate as they work to meet the needs of an increasingly diverse student population and engage with complex science teaching challenges that disproportionately affect marginalized students The book will be of use to science teacher educators pre service and in service science teachers professional development specialists or any science educator invested in developing creative reflective and thoughtful teachers **ENC Focus** ,2000 **Resources in Education** ,1997-04 *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 *Current Literature on Science of Science* ,2001 **The Design, Implementation, and Assessment of a Three Year Research Program at the High School Level** Andrew John

Moore,2007 **Current Index to Journals in Education** ,2002 **Creating High Functioning Schools** Yvonne Cano,Fred Wood,Jan C. Simmons,1998 A selection of 17 presentations at two years of the annual National Conference on Creating the Quality School apparently held at the University of Oklahoma Covers leadership for school improvement classroom practices for school improvement and innovation and continuous improvement with a focus on technology and total quality education Potentially useful as a textbook in administration preparation programs but mainly intended as a bouquet of theoretical and empirical ideas for practitioners Paper edition unseen 45 95 Annotation copyrighted by Book News Inc Portland OR **Journal of Engineering Education** ,2003 *The Game of Science Education* Jeffrey Weld,2004 An accessible and authoritative approach to effective science teaching this text is the work of 16 contributors who each employ a single metaphor that will resonate with readers that science education can and should be considered an exciting game With Windows Into the Classroom personal accounts and The Game in Action vignettes students are provided with practical applications throughout the book Many contributors to this book were involved in the development and draft review of the National Science Education Standards and therefore fully appreciate the importance of overtly linking research based commentary and recommendations to the Standards As a result the entire work is steeped in a current research foundation tied closely to the National Science Education Standards Features of this new text Windows into the classroom personal accounts and The Game in Action vignettes provide practical applications throughout the book Written in accessible first person accounts each contributor takes a conversational approach that will appeal to a broad audience of readers Introductions establishes the game metaphor that sustains the chapter and weaves throughout the book Conclusions leaves the reader with upbeat and practical suggestions for effective science teaching Author Biographies highlight the distinguished record of achievement of each contributor Additional Resources at the end of each chapter provide suggestions of useful readings websites and other instructional instruments Reflection questions intended to provoke the reader to apply the ideas and concepts unearthed in the chapter to his or her own unique vantage or condition as an educator The research base of this proposal is a 10 on a scale of 1 10 I m impressed with the style and theme of the essays my students would learn a great deal regarding the practical application of science education Professor David R Wetzel Bloomsburg University I very much like the use of the analogy of a Game used by the authors The text is VERY readable Professor Molly Weinburgh Georgia State University The writing style and use of the game metaphor will undoubtedly grab undergraduate alternate entry and graduate student interest Professor Warren J DiBiase EdD University of North Carolina Charlotte Author Bio A decorated veteran of high school science teaching Jeff now researches effective science teaching and learning testing innovations on his students at Northern Iowa He also develops curriculum consults at local and national levels and serves science education organizations He has published research and philosophy in Educational Leadership Phi Delta Kappa The Science Teacher The American Biology Teacher Education Week the Journal of College Science Teaching the Journal of Science Teacher Education

the International Journal of Science Education and Teacher magazine Page 1 of 2 **Journal of Research in Rural Education** ,1997 Lessons for a Scientific Literature Review Randell K. Schmidt, Maureen M. Smyth, Virginia K. Kowalski, 2008 Based on a collaborative inquiry based project co conducted and graded by science teachers and school librarians at Gill St Bernard s school this book presented in workshop format furnishes all the material necessary to enable school librarians and high school science teachers to collaboratively teach the important topic of how to perform and write up a scientific literature review Students choose a topic of personal interest linked to their science class subject s The school librarian and science teachers instruct students in how to perform the necessary research and how to successfully integrate the new information into a final product This book will present an overview of the project including a discussion of the value of inquiry based research detailed project lessons student assignments and a concluding discussion of unit assessment Grades 9 14 **Journal of Geoscience Education** ,2007 **Public Health Reports** ,2007 The School Science Review ,2006 Teaching in the Middle and Secondary Schools Joseph F. Callahan, Leonard H. Clark, Richard Dean Kellough, 1998 This book is designed to provide a practical criterion referenced performance based model for general secondary or middle school methods The text s unique modular format allows students to work through each module at their own pace building confidence as each skill is mastered Using current and practical methods of teaching this latest edition incorporates constructivist based theory social interactive learning strategies and inquiry learning which involve students in problem solving situations *Science Scope* ,2003 **Virginia Journal of Science** Ruskin Skidmore Freer, 2002 **The Virginia Journal of Science** ,2001

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web to separate the lanthanides from other elements occurring with them they are chemically combined with specific substances to form lanthanide compounds with low solubility oxalates and fluorides for example a process known as ion exchange is then used to separate the lanthanides from each other in this process a solution of the

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth s crust

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