

# Physics - Performance Task

## Objectives:

By the end of this lesson, students will be able to:

- Understand the basics of planetary motion according to Kepler's laws.
- Explain the role of gravity in maintaining the orbits of planets around the Sun.
- Apply Kepler's laws and principles of gravitation to analyse planetary motion.

## Engagement

### Question

# High School Physics Performance Task

**Katrin Zwirgmaier**



## **High School Physics Performance Task:**

**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 *A Performance Assessment of NASA's Heliophysics Program* National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Heliophysics Performance Assessment, 2009-04-24 Since the 1990s the pace of discovery in the field of solar and space physics has accelerated largely owing to NASA investments in its Heliophysics Great Observatory fleet of spacecraft These enable researchers to investigate connections between events on the Sun and in the space environment by combining multiple points of view Recognizing the importance of observations of the Sun to Earth system the National Research Council produced a solar and space physics decadal survey in 2003 laying out the Integrated Research Strategy This strategy provided a prioritized list of flight missions plus theory and modeling programs that would advance the relevant physical theories incorporate those theories in models that describe a system of interactions between the Sun and the space environment obtain data on the system and analyze and test the adequacy of the theories and models Five years later this book measures NASA s progress toward the goals and priorities laid out in the 2003 study Unfortunately very little of the recommended priorities will be realized before 2013 Mission cost growth reordering of survey mission priorities and unrealized budget assumptions have delayed nearly all of the recommended NASA spacecraft missions The resulting loss of synergistic capabilities in space will constitute a serious impediment to future progress **Advances in Quantitative Ethnography** Crina Damşa, Amanda Barany, 2023-04-28 This

book constitutes the refereed proceedings of the 4th International Conference on Advances in Quantitative Ethnography ICQE 2022 held in Copenhagen Denmark during October 15 19 2022 The 29 full papers included in this book were carefully reviewed and selected from 71 submissions They were organized in topical sections as follows QE Theory and Methodology Research Applications in Education Contexts and Applications in Interdisciplinary Contexts     **Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2019-10-11 As teaching strategies continue to change and evolve and technology use in classrooms continues to increase it is imperative that their impact on student learning is monitored and assessed New practices are being developed to enhance students participation especially in their own assessment be it through peer review reflective assessment the introduction of new technologies or other novel solutions Educators must remain up to date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel Learning and Performance Assessment Concepts Methodologies Tools and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance based assessment techniques and applications within educational settings Highlighting a range of topics such as learning outcomes assessment design and peer assessment this multi volume book is ideally designed for educators administrative officials principals deans instructional designers school boards academicians researchers and education students seeking coverage on an educator s role in evaluation design and analyses of evaluation methods and outcomes     **Resources for Student Assessment** Peggy Kelly, M. G. Kelly, Jon Haber, 2006 Detailed guidelines for creating and choosing reliable tests of technology literacy for various grades as well as case studies and best practices at the site district and state levels School Library Journal     *Science Educator's Guide to Laboratory Assessment* Rodney L. Doran, 2002 The book opens with an up to date discussion of assessment theory research and uses Then comes a wealth of sample assessment activities in biology chemistry physics and Earth science Keyed to the National Science Education Standards the activities include reproducible task sheets and scoring rubrics All are ideal for helping students reflect on their own learning during science lab     *Beyond the Bubble Test* Linda Darling-Hammond, Frank Adamson, 2014-06-16 Performance assessment is a hot topic in school systems and educators continue to analyze its costs benefits and feasibility as a replacement for high stakes testing Until now researchers and policymakers have had to dig to find out what we know and what we still have to learn about performance assessment *Beyond the Bubble Test* How Performance Assessments Support 21st Century Learning synthesizes the latest findings in the field and not a moment too soon Statistics indicate that the United States is in danger of falling behind if it fails to adapt to our changing world The memory and recall strategies of traditional testing are no longer adequate to equip our students with the skills they need to excel in the global economy Instead teachers need to engage students in deeper learning assessing their ability to use higher order skills Skills like synthesizing information understanding evidence and critical problem solving are not achieved when

we teach to multiple choice exams Examples in Beyond the Bubble Test paint a useful picture of how schools can begin to supplement traditional tests with something that works better This book provides new perspectives on current performance assessment research plus an incisive look at what s possible at the local and state levels Linda Darling Hammond with a team of leading scholars bring together lessons learned new directions and solid recommendations into a single readily accessible compendium Beyond the Bubble Test situates the current debate on performance assessment within the context of testing in the United States This comprehensive resource also looks beyond our U S borders to Singapore Hong Kong and other places whose reform mindedness can serve as an example to us     Testing in American Schools United States. Congress. Office of Technology Assessment,1992 And policy options Testing in transition Educational testing policy The changing federal role Lessons from the past A history of educational testing in the United States How other countries test Standardized tests in schools A primer Performance assessment Methods and characteristics Information technologies and testing Past present future List of acronyms Contractor reports     Resources in Education ,2001-10     **Integration of Classroom Science Performance Assessment Tasks by Participants of the Wisconsin Performance Assessment Development Project (WPADP)** Dorothy A. Tonnis,1997

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