

Name: _____

Gravity Exploration Worksheet

Part A: How much would you weigh on the moon and planets?

The more mass a planet has compacted within its size, the stronger its gravitational constant. Earth has a gravitational constant of 9.8 N/kg. Planets that have more matter compressed within their volumes than Earth would have stronger gravitational constants at their surfaces. As a result, a person would weigh more on these planets than they do on Earth. On the moon a person would weigh less. Find your weight on the moon and each of the planets in the solar system.

Weight on Earth (N)* Weight in lbs = _____	X	Gravitational constant compared to Earth	=	Calculated Weight on... (N)	Location
You can convert you weight in pounds to newtons by multiplying pounds by 4.45N/lb. _____ For instance, a person weighing 100lb on Earth would also weigh 445N on Earth	X	0.17	=		Moon
	X	0.38	=		Mercury
	X	0.86	=		Venus
	X	0.38	=		Mars
	X	2.87	=		Jupiter
	X	1.32	=		Saturn
	X	0.93	=		Uranus
	X	1.23	=		Neptune

Part B: How far could you jump on the moon and planets?

Determine how far you can jump from a standing start on Earth. To do this, place a piece of tape on the floor as a starting line. Jump as far as you can, keeping both feet together. Have your partner mark where your feet hit the ground (not where you end up!). Measure this distance in centimeters and record in the table. Do this five times, then find the average.

Jump #1	Jump #2	Jump #3	Jump #4	Jump #5	Average Jump

Gravity Exploration Worksheet Answers

Fiona Baxter, Liz Dilley



Gravity Exploration Worksheet Answers:

Concepts of Mathematics & Physics Parent Lesson Plan, 2013-08-01 Concepts of Mathematics and Physics Course Description This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Mathematics Numbers surround us Just try to make it through a day without using any It s impossible telephone numbers calendars volume settings shoe sizes speed limits weights street numbers microwave timers TV channels and the list goes on and on The many advancements and branches of mathematics were developed through the centuries as people encountered problems and relied upon math to solve them It s amazing how ten simple digits can be used in an endless number of ways to benefit man The development of these ten digits and their many uses is the fascinating story in Exploring the World of Mathematics Semester 2 Physics Physics is a branch of science that many people consider to be too complicated to understand John Hudson Tiner puts this myth to rest as he explains the fascinating world of physics in a way that students can comprehend Did you know that a feather and a lump of lead will fall at the same rate in a vacuum Learn about the history of physics from Aristotle to Galileo to Isaac Newton to the latest advances Discover how the laws of motion and gravity affect everything from the normal activities of everyday life to launching rockets into space Learn about the effects of inertia firsthand during fun and informative experiments Exploring the World of Physics is a great tool for students who want to have a deeper understanding of the important and interesting ways that physics affects our lives

New Standards-Based Lessons for the Busy Elementary School Librarian Joyce Keeling, 2024-01-25 Helps busy elementary school librarians in the United States understand and apply the new AASL standards in collaboration with science teachers as well as the Next Generation Science Standards

Explore Forces and Motion! Jennifer Swanson, 2016-06-07 Everything moves Kids run around the playground cars drive on the road and balls fly through the air What causes all this motion Physics Forces and motion rule the way everything moves through space In Explore Forces and Motion With 25 Great Projects readers ages 7 through 10 discover that the push and pull of every object on the planet and in space depends on how a force acts upon it Things float because of a force called buoyancy we stick to the ground because of a force called gravity and we make footprints in sand because of a force called pressure Physics becomes accessible and interactive through activities such as a experimenting with a water cup drop building a bridge and spotting magnetic field lines Simple machines such as levers pulleys and wedges are used as vehicles for discovery and comprehension of the foundational concepts of physical science Using a theme familiar to everyone motion this book captures the imagination and encourages young readers to push pull twist turn and spin their way to learning about forces and motion

Cambridge Primary Science Stage 6 Teacher's Resource Book with CD-ROM Fiona Baxter, Liz Dilley, 2014-05-22 Cambridge Primary Science is a flexible engaging course written specifically for the Cambridge Primary

Science curriculum framework This Teacher s Resource for Stage 6 contains guidance on all components in the series Select activities and exercises to suit your teaching style and your learners abilities from the wide range of ideas presented Guidance includes suggestions for differentiation and assessment and supplementing your teaching with resources available online to help tailor your scheme of work according to your needs Answers to questions from the Learner s Book and Activity Book are also included The material is presented in editable format on CD ROM as well as in print to give you the opportunity to adapt it to your needs

Ate Science Plus 2002 LV Red Holt Rinehart & Winston,2001-02 **Enrichment Worksheets, Student Edition, for Use with Glencoe Physical Science** Aron Thompson,1999 *Prentice Hall Exploring Life Science* Anthea Maton,1997 **Explore Science Ks2 - Year 6 Pupil Book** ,2003-04-25 All you need to plan and teach each science lesson Integrating books and software for Reception to Year 6 this innovative programme provides a comprehensive science resource for the primary classroom Each unit is packed with a range of exciting and challenging tasks including investigations practical activities and experiences that bring science to life Exploring Earth and Space Michael DiSpezio,1995 A textbook exploring such aspects of matter and energy as heat electricity and nuclear chemistry with suggested activities and review questions at the end of each chapter **Te HS&T J** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Teacher Development for Content-Based Language Education** Susan Ballinger,Ruth Fielding,Diane J. Tedick,2024-09-10 This book fills a large gap in our understanding of how to prepare teachers for the challenging but increasingly popular task of integrating content and language instruction It brings together findings on content based teacher education from Africa Asia Australia Europe and North America in order to inform researchers and teacher educators and enable them to play a critical role in the continued success of such programs It offers a solid grounding in theories and applications of content based approaches with empirical studies investigating teacher identity materials design use of cognitive discourse functions and best practices for teacher education Responding to the growing popularity of content based programs and the shortage of qualified teachers for these contexts this book promotes teacher researcher collaboration and provides support for trainee teachers in service teachers and course leaders **Science Discovery Activities Kit** Frances Bartlett Barhydt,1989 *Spotlight Science Teacher Support Pack 9* Keith Johnson,Lawrie Ryan,Sue Adamson,2004 This Framework Edition Teacher Support Pack offers support and guidance **Biology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 **Destination** Margaret Legowski,1998 The activities in this video guide have been designed for a 3 5 day minimum on one of the nations of Oceania the Republic of the Marshall Islands Used in conjunction with the videotape students can compare and contrast aspects of Marshallese and American culture and relate the fundamental geographic themes of location place and movement to the history and culture of the Marshall Islands Contents teacher s guide grades 3 5 with worksheets grades 6 9 with worksheets grades 10 12 with worksheets resource list Illustrated **Journal of Physical Education, Recreation & Dance** ,1982 Spreadsheet Physics Charles W.

Misner,Patrick J. Cooney,1991 **Te HS&T 2007 Shrt Crs M** Holt Rinehart & Winston,2007 Factors Influencing Middle School Students' Sense-making Discussions in Their Small-group Investigations of Force and Motion Cody

Sandifer,2001 In this study I adopted a combined individual and sociocultural perspective on learning in order to investigate small group discussions in an inquiry based middle school science classroom The specific purpose of the study was to answer the following research questions a How can we classify students sense making statements b To what extent do students engage in sense making discussion SMD and c Which factors provide support for students SMD To answer these questions two groups were videotaped during the Interactions and Motion unit from the Constructing Ideas in Physical Science middle school curriculum To classify students sense making statements I developed a six component framework for sense making discussion My six components of sense making discussion are predicting a phenomenon or experimental outcome clarifying the facts of a phenomenon or experimental result describing and explaining a phenomenon or experimental result defining describing clarifying and connecting scientific concepts procedures processes and representations testing knowledge compatibility and making a request for any of the above The extent of students sense making discussions was established by a documenting instances of student sense making according to the six component scheme and then forming distributions of sense making instances and b calculating the percentage of time that groups dedicated to sense making discussion To determine the influence that various factors have on students sense making discussions I first drew on the research in collaboration discourse and nonverbal sense making to arrive at an initial list of personal group task and contextual factors that would likely influence the SMD in this study I then picked out significant quantitative differences in sense making between groups students and different portions of the curriculum cycles sub sections etc and determined to what extent the initial list of factors contributed to the significant differences in SMD and also to what extent any additional factors contributed to these differences My analysis showed that many of the factors from the initial list helped to explain the differences in sense making I also identified six other factors that contributed to these differences capacity for intra group guidance intellectual capacity time available for sense making external guidance awareness of the curriculum structure and an awareness and valuing of the curriculum goals **Come Fly with Me!** David C. Housel,Doreen K. M. Housel,1983

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