

Name:

MICAH COYLE

Period:

Group #:

3

8th Grade Rube Goldberg Machine Project Packet

Objective: You will be able to design and construct a Rube Goldberg machine using at minimum 3 different simple machines, lasting at least 30 seconds, ending with setting off a pre-made catapult.

Limitations/Criteria:

1. The entire project must fit on or fall directly off a single workshop table that will be provided.
 - a. Smaller platforms may be given if needed to glue parts of project down.
2. Dominoes may only be used as a transitional part of the project, should not be excessive (determined by teacher).
3. Once the machine is set off, there can be no outside help to keep it running.
4. *Any other limitations/criteria may be subject to change, added onto, or removed at instructor's discretion.*

Requirements:

1. The RG machine must set off a catapult at the end of its run time.
2. The machine should run for at least 30 continuous seconds without outside help.
3. You must use at least 3 different simple machines throughout the project.

Simple Machine Checklist:

<input type="checkbox"/> Wheel & axle	<input type="checkbox"/> Screw	<input type="checkbox"/> Wedge
<input type="checkbox"/> Inclined Plane	<input type="checkbox"/> Pulley	<input type="checkbox"/> Lever
o Class 1, class 2, class 3		

Possible Rube Goldberg Project Materials

1. Toilet paper centers	2. Pulleys
3. Wrapping paper tubes	4. Latches
5. Mouse traps	6. Rubber bands
7. Hot wheel cars	8. CD's
9. Marbles	10. Hooks
11. String	12. Variable weights
13. Legos	14. Magnets
15. Dixie cups	16. K-nex

The items you may bring in are not limited to the examples given above. Be sure to ask Mr. Basham for approval of additional items.

You do not have to buy your own materials. Material requests can be given to Mr. Basham.

Please be sure to show your parents this list, they may be able to help you out.

Rube Goldberg Machine Packet Answers

D Keegan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name D Keegan.

Rube Goldberg Machine Packet Answers:

Key to Red Workbook Susan Wise Bauer, 2018-12-04 The Key to the Red Workbook gives clear thoroughly explained answers to all exercises in the Red Workbook the second of four non sequential books in the Grammar for the Well Trained Mind series providing detailed well designed exercises in the correct use of English grammar The Key along with the accompanying Red Workbook and the Core Instructor Text make up Grammar for the Well Trained Mind a complete course that takes students from basic definitions A noun is the name of a person place thing or idea through advanced sentence structure and analysis all the grammar skills needed to write and speak with eloquence and confidence This innovative program combines the three essential elements of language learning understanding and memorizing rules prescriptive teaching repeated exposure to examples of how those rules are used descriptive instruction and practice using those rules in exercises and in writing practical experience Each year parents and teachers go through the dialogue rules and examples in the Core Instructor Text students follow along in the Workbook This repetition solidifies the concepts definitions and examples in the student s mind There are four Student Workbooks one for each year Each Student Workbook contains the same rules and examples but four completely different sets of exercises and assignments allowing students to develop a wide ranging knowledge of how the rules and examples are put to use in writing Each Key to the Workbooks provides not only answers but also explanations for the parent instructor and guidance as to when the answers might be ambiguous as in English they often are All of the rules covered along with the repeated examples for each are assembled for ongoing reference in the Comprehensive Handbook of Rules This will become the student s indispensable guide to writing through high school into college and beyond Step by step instruction takes students from the most basic concepts through advanced grammatical concepts such as modal and hortative verbs and multiple functions of noun clauses Extensive diagramming exercises reinforce the rules and help technical and visual learners to understand and use the English language effectively Each step of the diagramming process is illustrated and thoroughly explained to the student Text for examples and exercises are drawn from great works of literature as well as from well written nonfiction texts in science mathematics and the social sciences Regular review is built into each year of work The Key accompanies the second of four non sequential workbooks each containing new exercises that allow students to practice and apply the grammar principles under study

The Science Teacher's Toolbox Tara C. Dale, Mandi S. White, 2020-04-09 A winning educational formula of engaging lessons and powerful strategies for science teachers in numerous classroom settings The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Science Teacher s Toolbox is a classroom tested resource offering hundreds of

accessible student friendly lessons and strategies that can be implemented in a variety of educational settings Concise chapters fully explain the research basis necessary technology Next Generation Science Standards correlation and implementation of each lesson and strategy Favoring a hands on approach this book provides step by step instructions that help teachers to apply their new skills and knowledge in their classrooms immediately Lessons cover topics such as setting up labs conducting experiments using graphs analyzing data writing lab reports incorporating technology assessing student learning teaching all ability students and much more This book enables science teachers to Understand how each strategy works in the classroom and avoid common mistakes Promote culturally responsive classrooms Activate and enhance prior knowledge Bring fresh and engaging activities into the classroom and the science lab Written by respected authors and educators The Science Teacher s Toolbox Hundreds of Practical Ideas to Support Your Students is an invaluable aid for upper elementary middle school and high school science educators as well those in teacher education programs and staff development professionals

Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction

Changer of Worlds David Weber,Eric Flint,2001-03 Inter related stories of Lady Dame Honor Harrington the alien treecats Eric Flint Anton Zilwicki Esther McQueen and Oscar Saint Just

Te HS&T 2007 Shrt Crs M Holt Rinehart & Winston,2007

Substitute Nicholson Baker,2017-09-05 A New York Times Bestseller May be the most revealing depiction of the American contemporary classroom that we have to date Garret Keizer The New York Times Book Review Bestselling author Nicholson Baker in pursuit of the realities of American public education signed up as a substitute teacher in a Maine public school district In 2014 after a brief orientation course and a few fingerprinting sessions Nicholson Baker became an on call substitute teacher in a Maine public school district He awoke to the dispatcher s five forty a m phone call and headed to one of several nearby schools when he got there he did his best to follow lesson plans and help his students get something done What emerges from Baker s experience is a complex often touching deconstruction of public schooling in America children swamped with overdue assignments over whelmed by the marvels and distractions of social media and educational technology and staff who weary themselves trying to teach in step with an often outmoded or overly ambitious standard curriculum In Baker s hands the inner life of the classroom is examined anew mundane work sheets recess time outs surprise nosebleeds rebellions griefs jealousies minor triumphs kindergarten show and tell daily lessons on everything from geology to metal tech to the Holocaust as he and his pupils struggle to find ways to get through the day Baker is one of the most inventive and remarkable writers of our time and Substitute filled with humor honesty and empathy may be his most impressive work of nonfiction yet

Dictionary of Communications Technology Gilbert Held,1998-06-29 This comprehensive dictionary brings readers up to date with the latest developments and covers new terms in fiber optics local area and international networking and the Internet New entries cover PC LANS client server operations and the Internet *Focus on physical science* Charles H. Heimler,1989 **Playthings** ,1963 **God and Evolution: Creativity In Action** Jock Abra,2015-01-19 Atheism this book argues is unbelievable The universe s wonders couldn t have come about by chance nor could natural selection alone have produced evolution Therefore since evolution resembles the creative process especially in using trial and error God s creative activity is responsible and human creators reveal much about him However that process is goal directed so evolution must be as well But the goal a Picasso or Darwin pursues is vague They don t know exactly where they re going and make mistakes So therefore must God Thus Abra rejects the perfect God assumed by many religions and Intelligent Design Why bring back God To restore meaning and purpose to existence and gain faith s many benefits To better explain how the universe scientific laws and life itself came about and living things attractive but useless properties Other discussions clarify both creativity and the creative God Is there one kind of creativity or many A sex difference Are creators neurotic **Computerworld** ,1992-05-04 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network **School Library Media Activities Monthly** ,1998 *The Louisville & Nashville Employes' Magazine* ,1951 **Holt Science Spectrum: Physical Approach** Holt Rinehart & Winston,2010-03-04 **Microcomputers in Education** ,1986 **New York Magazine** ,1987-11-09 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea *The Great American Balloon Book* Bob Waligunda,Larry Sheehan,1981 A sourcebook about ballooning and balloonists with a detailed training syllabus **Scott Foresman-Addison Wesley Middle School Math** ,2002

Discover Science: Teacher's annotated edition ,1991 Science content helps develop the skills needed to understand how science works learn new concepts solve problems and make decisions in today s technological society **Typo Graphic** ,1959

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