

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Circular Motion Worksheet

1. A 0.5 kg ball moves in a circle that is 0.4 m in radius at a speed of 4.0 m/s. Calculate its centripetal acceleration.
2. Calculate the centripetal force on the ball in question #1.
3. A toy cart at the end of a string 0.70 m long moves in a circle on a table. The cart has a mass of 2.0 kg and the string has a breaking strength of 40. N. Calculate the maximum speed the cart can attain without breaking the string.
4. The minute hand of a large clock is 0.50 m long.
  - (A) Calculate its linear speed at its tip in meters per second.
  - (B) Calculate the centripetal acceleration of the tip of the hand.
  - (C) What is the angular velocity ( $\omega$ ) of the tip of the minute hand?
5. What is the minimum radius at which an airplane flying at 300 m/s can make a U-turn if its centripetal acceleration is NOT to exceed 4 g's? ( $1 g = 9.8 \text{ m/s}^2$ )
6. A string 1.0 m long breaks when its tension is 100 N. What is the greatest speed at which it can be used to whirl a 1.0 kg stone? (Neglect the gravitational pull of the earth on the stone.)
7. What is the angular speed of the stone in question #6?

# Circular Motion Worksheet With Answers

**Holt Rinehart & Winston**



## **Circular Motion Worksheet With Answers:**

**Physics Handbook Gravitation and Motion** Chandan Sengupta, This book is meant for aspirants having eagerness to prosper in the field of Science and Technology by securing their admission in any of the streams For that purpose they have to gain some additional mastery on skills of specific types to make them competent enough in solving various types of problems This book deals with following specific sub themes 1 Laws of Motion 2 Motion in one and two dimensions 3 Motion in Three Dimensions 4 Laws of Gravity 5 Rigid bodies and rotation Several other sub themes can have their presence in the middle as per the consideration of the need of content area

**General Science 1: Survey of Earth and Sky (Teacher Guide)** ,2017-03-01 Four titles from the best selling Wonders of Creation Series are combined for a full year of study The focus of the course delves into oceans astronomy weather and mineral all helping the student form a solid biblical worldview Combined with the teacher guide you will have a detailed calendar for each week of study reproducible worksheets quizzes and tests and answers keys to help grade all assignments General Science I Course Description This is the suggested course sequence that allows two core areas of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials within each semester are independent of one another to allow flexibility

Quarter 1 Ocean The oceans may well be Earth s final frontier These dark and sometimes mysterious waters cover 71 percent of the surface area of the globe and have yet to be fully explored Under the waves a watery world of frail splendor foreboding creatures vast mountains and sights beyond imagination awaits Now this powerful resource has been developed for three educational levels Learning about the oceans and their hidden worlds can be exciting and rewarding the abundance and diversity of life the wealth of resources the latest discoveries and the simple mysteries that have intrigued explorers and scientists for centuries A better understanding of our oceans ensures careful stewardship of their grandeur and beauty for future generations and leads to a deeper respect for the delicate balance of life on that God created on planet Earth

Quarter 2 Astronomy The universe is an amazing declaration of the glory and power of God Beautiful and breathtaking in its scale the vast expanse of the universe is one that we struggle to study understand or even comprehend in terms of its purpose and size Now take an incredible look at the mysteries and marvels of space in The New Astronomy Book If you watch the stars at night you will see how they change This speaks to the enormity and intricacy of design in the universe While the stars appear timeless they instead reflect an all powerful Creator who speaks of them in the Bible Many ancient pagan cultures taught that the changing stars caused the seasons to change but unlike these pagan teachings the Book of Job gives credit to God for both changing stars and seasons Job 38 31 33 When Job looked at Orion he saw about what we see today even though he may have lived as much as 4 000 years ago

Quarter 3 Weather From the practical to the pretty amazing this book gives essential details into understanding what weather is how it works and how other forces that impact on it Learn why storm chasers and hurricane hunters do what they do and how they are helping to solve storm connected mysteries Discover what

makes winter storms both beautiful and deadly as well as what is behind weather phenomena like St Elmo's Fire Find important information on climate history and answers to the modern questions of supposed climate change Get safety tips for preventing dangerous weather related injuries like those from lightning strikes uncover why thunderstorms form as well as what we know about the mechanics of a tornado and other extreme weather examples like flash floods hurricanes and more A fresh and compelling look at wild and awesome examples of weather in this revised and updated book in the Wonders of Creation series Quarter 4 Mineral Minerals are a gift of God's grace Every day we touch them seeing the diamond in an engagement ring or a copper chain with a cross on it Minerals are touched on in video games like Minecraft and Mineral Valley™ making them more a part of our daily experience Salt one vital mineral helps maintain the fluid in our blood cells and is used to transmit information in our nerves and muscles Also Jesus told his followers that we are the salt of the earth Matthew 5:13 something thus needed for health and flavor Here is a God honoring book that reveals the first mention of minerals in the Bible symbolic usages their current values in culture and society and their mention in heaven

**Mechanical Dynamics For Technicians: Simplest Dynamics Book** Dr. Kay Rand Morgan, 2025-11-01 A clear beginner friendly guide to understanding how things move written for technicians engineering technology students and anyone learning mechanical dynamics for the first time Mechanical dynamics can feel overwhelming full of formulas diagrams and theory that leave many learners unsure where to begin This book fixes that Mechanical Dynamics for Technicians breaks the subject down into simple practical lessons that students can actually follow without advanced math Designed for one semester courses in engineering technology industrial programs or workforce training this book introduces motion forces energy momentum rigid bodies and systems using language that is approachable and examples that feel real Students learn step by step through guided explanations worked examples worksheets and hands on laboratory activities using spring systems pull back cars bouncing balls and pendulum motion Inside readers will find Clean visual friendly explanations of particle and rigid body dynamics Concepts broken into small manageable units Units 1-6 Dozens of fully solved examples worksheets and a complete answer key Real world labs using motion detectors and video analysis Coverage of Newton's laws work and energy impulse and momentum systems of particles and rotational dynamics Reference tables glossary and symbols list for quick review Perfect for students returning to school adult learners community college programs or anyone who wants to understand the mechanical world without getting lost in complicated math this book builds the confidence and understanding needed for higher level engineering courses Straightforward Technician friendly Classroom ready A complete and accessible introduction to mechanical dynamics *Resources in Education*, 1986-10 *Te HS&T 2007 Shrt Crs M* Holt Rinehart & Winston, 2007 **Resources in Education**, 1986 **Whitaker's Books in Print**, 1998 **Native American Sourcebook** Barbara Robinson, 1988 **Journal for Research in Mathematics Education**, 1998 The Science Teacher, 1960 Some issues are accompanied by a CD ROM on a selected topic *Glencoe Science*

McGraw-Hill Staff,2001-09 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 *Data Sources* ,2000 *History of the United States* Thomas V. DiBacco,Lorna C. Mason,Christian G. Appy,1991 Radiologic Science for Technologists Stewart C. Bushong,1997 The purpose of this textbook is to convey a working knowledge of radiologic physics and to prepare radiography students for the certification exam by the ARRT The textbook also provides a standard of knowledge from which practicing radiographers can make decisions about technical factors and diagnostic image quality in the work place This edition gives an expanded coverage of quality management which includes all of the content on the ARRT It also includes coverage of new cardiovascular interventional equipment and recent advances in spiral CT and digital radiography Keeps students informed and up to date with respect to professional standards and requirements Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed National Information Center for Special Education Materials,1978 **Discovering Our World** Rosie Seaman,1987-12 Curriculum Review ,1983 **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 **Ate Science Plus 2002 LV Red** Holt Rinehart & Winston,2001-02

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