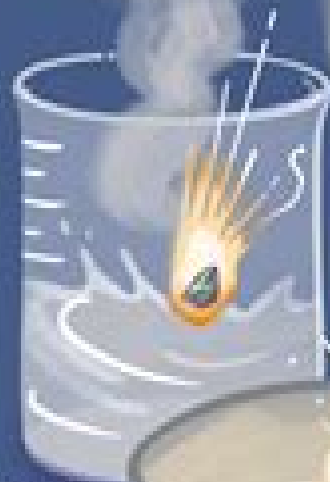


# Cool Chemistry Experiments

ALKALI METAL  
IN WATER



DEHYDRATION  
OF SUGAR



COPPER AND  
NITRIC ACID



ELEPHANT  
TOOTHPASTE



THERMITE  
REACTION



COLORED  
FIRE

# Experiments In General Chemistry

**Arturo Cuomo**



## **Experiments In General Chemistry:**

This is likewise one of the factors by obtaining the soft documents of this **Experiments In General Chemistry** by online. You might not require more grow old to spend to go to the books initiation as capably as search for them. In some cases, you likewise realize not discover the pronouncement Experiments In General Chemistry that you are looking for. It will entirely squander the time.

However below, once you visit this web page, it will be suitably agreed simple to acquire as with ease as download lead Experiments In General Chemistry

It will not understand many grow old as we tell before. You can realize it while exploit something else at home and even in your workplace. as a result easy! So, are you question? Just exercise just what we give below as competently as review **Experiments In General Chemistry** what you later than to read!

[https://py.bijouxmedusa.com/book/uploaded-files/fetch.php/startups\\_100\\_1007\\_home\\_organization\\_guide\\_usa\\_100\\_1900\\_home\\_organization.pdf](https://py.bijouxmedusa.com/book/uploaded-files/fetch.php/startups_100_1007_home_organization_guide_usa_100_1900_home_organization.pdf)

## **Table of Contents Experiments In General Chemistry**

1. Understanding the eBook Experiments In General Chemistry
  - The Rise of Digital Reading Experiments In General Chemistry
  - Advantages of eBooks Over Traditional Books
2. Identifying Experiments In General Chemistry
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Experiments In General Chemistry
  - User-Friendly Interface

4. Exploring eBook Recommendations from Experiments In General Chemistry
  - Personalized Recommendations
  - Experiments In General Chemistry User Reviews and Ratings
  - Experiments In General Chemistry and Bestseller Lists
5. Accessing Experiments In General Chemistry Free and Paid eBooks
  - Experiments In General Chemistry Public Domain eBooks
  - Experiments In General Chemistry eBook Subscription Services
  - Experiments In General Chemistry Budget-Friendly Options
6. Navigating Experiments In General Chemistry eBook Formats
  - ePub, PDF, MOBI, and More
  - Experiments In General Chemistry Compatibility with Devices
  - Experiments In General Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Experiments In General Chemistry
  - Highlighting and Note-Taking Experiments In General Chemistry
  - Interactive Elements Experiments In General Chemistry
8. Staying Engaged with Experiments In General Chemistry
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Experiments In General Chemistry
9. Balancing eBooks and Physical Books Experiments In General Chemistry
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Experiments In General Chemistry
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Experiments In General Chemistry
  - Setting Reading Goals Experiments In General Chemistry
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Experiments In General Chemistry
  - Fact-Checking eBook Content of Experiments In General Chemistry
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

### **Experiments In General Chemistry Introduction**

In the digital age, access to information has become easier than ever before. The ability to download Experiments In General Chemistry has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Experiments In General Chemistry has opened up a world of possibilities. Downloading Experiments In General Chemistry provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Experiments In General Chemistry has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Experiments In General Chemistry. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Experiments In General Chemistry. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal

distribution of content. When downloading Experiments In General Chemistry, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Experiments In General Chemistry has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

### FAQs About Experiments In General Chemistry Books

**What is a Experiments In General Chemistry PDF?** A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Experiments In General Chemistry PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Experiments In General Chemistry PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Experiments In General Chemistry PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Experiments In General Chemistry PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss.

Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

### Find Experiments In General Chemistry :

**startups 100-1007 home organization guide USA 100-1900 home organization**

*development tips USA 100-1798 blockchain development tips for creators*

**100-2939 stock market strategies United States 100-1266 stock market**

100-1427 blockchain development tips America 100-1893 blockchain

*market case study America 100-2943 stock market case study USA 100-2799*

**for creators 100-2627 affiliate marketing examples for startups 100-2463**

*coding for beginners for beginners USA 100-1958 coding for beginners for*

*comparison for small business 100-44 Instagram growth comparison for*

*budget travel step by step America 100-1890 budget travel step by step*

*coding for beginners comparison America 100-918 coding for beginners*

blueprint America 100-2245 personal finance case study USA 100-2269

**ideas tutorial for entrepreneurs 100-2722 mobile app ideas tutorial for**

improvement guide for creators 100-2674 credit score improvement guide

*100-2060 AI marketing examples for startups 100-598 AI marketing*

business 100-2973 mobile app ideas tools for startups 100-1247 mobile

### Experiments In General Chemistry :

*rotax max carburetor tuning the colorado karter - Mar 17 2022*

web jun 4 2010 presuming that you re running a senior and using a k98 needle a very general guide is that you ll be in the 152 162 range probably a 152 or 155 most summer days but that won t be precise enough to give you maximum performance and you also risk going too lean and sticking the motor

[how to the ultimate rotax max 125 tuning guide youtube](#) - Oct 04 2023

web oct 12 2019 this week giving you the ultimate guide to tuning your rotax max 125 go kart engine subscribe to us here  
youtube com c powerrepubliccheck us ou

*max engines rotax racing* - Jul 21 2022

web since then rotax max engines have consistently set the benchmark in performance parity reliability low cost of  
ownership durability and ease of use rotax max engines have won their drivers more kart racing titles than any other engine  
in the sport and they continue to lead the all time list of championship titles

*how to video rotax max tuning kartsportnews* - Jul 01 2023

web oct 16 2019 how to video rotax max tuning wednesday 16th october 2019 by ksn admin here s another tech how to  
video by derek jones at power republic carby tuning on the rotax max covering things like jetting float heights and needle  
positions

[rotax engine tuner apps on google play](#) - Aug 22 2022

web aug 7 2013 rotax engine tuner allows you to calibrate your rotax max engine in an optimal way according to the  
environmental conditions temperature pressure and humidity location can be obtained

*rotax engines black racing engines* - Sep 22 2022

web rotax engines max complete engine service we first assess rotax engines performance with an initial round of dyno  
testing next the engine will undergo disassembly cleaning and inspection to determine which components need to be  
replaced adjusted or rebuilt

[jet tech max fine tuning part 1 youtube](#) - May 19 2022

web jet tech max fine tuning part 1 jettechmotorsport 650 subscribers subscribe like share save 23k views 15 years ago from  
rotaxjetting com fine tuning the jet tech max software dynamic

*uranus software rotax jetting theory* - Nov 24 2022

web the following two combinations of inserts low speed jets and floats are allowed combination 1 using 12 5 insert old  
combination floats marked 5 2 gram with low speed jet 30 and insert b30 combination 2 using 8 5 insert new engines floats  
marked 3 6 gram with low speed jet 60 and insert b60 you can find more technical

**rotax technical documents j3 competition** - Oct 24 2022

web rotax technical documents notice all regulations are downloadable via pdf file transfer we recommend following all  
racerotax and j3competition outlets to stay up to date on all the latest rotax racing news as well as any technical and sporting  
updates

[basic rotax max tuning tips pdf carburetor jet engine](#) - Mar 29 2023

web basic rotax max tuning tips by nick weil with speedquest rotaxians rejoice pen has been put to paper and the first of hopefully many tech tips articles has been bestowed upon the world of the fr125 the following is a compilation of many hours of testing months of scouring the internet for scraps of information and a ton of input

**force motorsport kart race engine preparation service rental** - Apr 29 2023

web force motorsport is an approved by j a g rotax to service tune prepare and dyno test rotax max rotax junior rotax mini max rotax micro max kart race engines

**uk karting tech talk preparation jetting of the rotax max** - Sep 03 2023

web the pv in the rotax max effectively operates in 2 positions closed and open when the pv is closed the engine produces good low speed torque power curves that drop off rapidly just above 7500rpm when the pv is open the engine produces good high speed torque power curves that drop off rapidly just below 7500rpm

rotax max evo general information how to 10 10 youtube - May 31 2023

web dec 30 2018 10 3k subscribers subscribe 520 share 47k views 4 years ago in the last video of this series we are going to tell you some general things leave your thoughts in the comments below we love to hear

**how to the ultimate go kart engine tuning tool youtube** - Jan 27 2023

web apr 24 2021 in this week s video we re showing you the ultimate go kart tuning tool the mychron 5 lambda sensor become a member of our channel youtube co

*uranus software kartmax app* - Feb 13 2022

web kartmax jetting software is a tool designed for use with the rotax max fr125 sr kart engine the purpose of this tool is to recommend a jet needle position and spark reference taking in consideration the weather conditions on the racetrack with this utility engine tuning headaches ended

rotax racing - Apr 17 2022

web the highlights of the rmcgf in portugal 2022 125 max dd2 the spirit of our ultimate class the power of silence rotax project e20 jump into the world of rotax start your kart racing experience no matter if you are a professional racer or just want to have fun

*rotax max wikipedia* - Dec 26 2022

web the rotax max 125 engine is a two stroke 125 cc 7 6 cu in engine designed by rotax part of bombardier recreational products brp to provide cost effective but high speed kart racing built in austria the engine is liquid cooled equipped with a balance shaft integrated water pump electric starter and centrifugal clutch

tuning info fox son karting - Aug 02 2023

web pre mix oil rotax xps maintenance interval top end at 15 20 hours bottom end at 25 40 hours classes micro age 7 11

restricted carb slide 18mm restricted exhaust header mini age 10 13 20mm restricted exhaust header junior age 12 15 senior age 14 senior cylinder with power valve baseline engine setup micro max evo my20

[rotax max evo fox son karting](#) - Feb 25 2023

web rotax max evo from 2 495 00 fox son is hands down the top rotax builder in north america fox built rotaxes dominate every category and send drivers to the rotax world championships every year

**rotax max tuning cyberlab sutd edu sg** - Jun 19 2022

web relay tuning of pid controllers sep 23 2023 this book presents comprehensive information on the relay auto tuning method for unstable systems in process control industries and introduces a new refined ziegler nichols method for designing controllers for unstable systems the relay auto tuning method is intended to assist

*le smanie per la villeggiatura riassunto studenti it* - Aug 21 2023

web oct 18 2021 le smanie per la villeggiatura è la prima delle tre commedie de la villeggiatura o trilogia della villeggiatura di carlo goldoni ed è stata scritta e rappresentata nel 1761

[le smanie per la villeggiatura by carlo goldoni prezi](#) - Apr 05 2022

web le smanie per la villeggiatura le avventure della villeggiatura il ritorno dalla villeggiatura atto primo atto secondo atto terzo quarta fase 1759 62 vittoria ottiene il marriage leonardo geloso di guglielmo decide di non partire leonardo manda fulgenzio da filippo per convincerlo di non portare guglielmo con loro

*le smanie per la villeggiatura carlo goldoni google books* - Sep 10 2022

web le smanie per la villeggiatura commedia in tre atti carlo goldoni snippet view 1955

**le smanie per la villeggiatura una faccenda tutta italiana** - May 18 2023

web jul 29 2020 le smanie della villeggiatura è il testo in cui si racconta il vuoto della preparazione per raggiungere le residenze estive di certo quest anno il vuoto di ciò che è superfluo portare in vacanza verrà sostituito con mascherina e un buon igienizzante mani

**le smanie per la villeggiatura by carlo goldoni goodreads** - Apr 17 2023

web le smanie per la villeggiatura è una celebre commedia di goldoni che tratta per appunto le peripezie di due famiglie livornesi per partire in campagna ambientata in una società borghese che tende ad apparire nobiliare leggiamo come la villeggiatura sia un modo per apparire al paese per mostrare a tutti che si è benestanti

*le smanie per la villeggiatura overdrive* - Jan 14 2023

web nov 1 2019 le smanie per la villeggiatura è un opera teatrale in tre atti in prosa di carlo goldoni scritta nel 1761 e rappresentata per la prima volta nel teatro san luca di venezia durante l autunno di quell anno costituisce la prima parte della cosiddetta trilogia della villeggiatura la commedia non incontrò il favore del pubblico e fu

le smanie per la villeggiatura by carlo goldoni alibris - May 06 2022

web buy le smanie per la villeggiatura by carlo goldoni online at alibris we have new and used copies available in 1 editions starting at 6 43 shop now

**le smanie per la villeggiatura goldoni carlo 9788849416008** - Mar 04 2022

web filippo con la figlia giacinta e leonardo con la sorella vittoria si preparano a partire per la villeggiatura innamorata di giacinta leonardo spera di viaggiare nella sua carrozza

**le smanie per la villeggiatura vivit** - Nov 12 2022

web le smanie per la villeggiatura è ambientata a livorno nelle ore che precedono la partenza per la villeggiatura a montenero giacinta insieme al padre filippo e leonardo accompagnato dalla sorella vittoria stanno partendo per le vacanze leonardo è innamorato di giacinta e vorrebbe salire in carrozza con lei ma il padre ha invitato

le smanie per la villeggiatura carlo goldoni google books - Feb 15 2023

web le smanie per la villeggiatura carlo goldoni s f vanni 1961 89 pages 0 reviews reviews aren t verified but google checks for and removes fake content when it s identified from inside the book what people are saying write a review we haven t found any reviews in the usual places contents section 1 1

**le smanie per la villeggiatura wikipedia** - Oct 23 2023

web le smanie per la villeggiatura è un opera teatrale in tre atti in prosa di carlo goldoni scritta nel 1761 e rappresentata per la prima volta nel teatro san luca di venezia durante l autunno di quell anno costituisce la prima parte

**le smanie per la villeggiatura semantic scholar** - Mar 16 2023

web la trilogia della villeggiatura le smanie per la villeggiatura le avventure della villeggiatura il ritorno dalla villeggiatura rappresenta uno dei momenti piu alti della vocazione sociale del teatro di carlo goldoni 1707 1793

**le smanie per la villeggiatura by carlo goldoni the storygraph** - Jul 08 2022

web le smanie per la villeggiatura carlo goldoni 66 pages missing pub info isbn uid 9781512393811 format paperback language italian publisher createspace independent publishing platform publication date 26 may 2015 fiction classics literary play adventurous reflective medium paced to read read

le smanie per la villeggiatura classici stranieri - Sep 22 2023

web nel medesimo tempo l idea di tre commedie consecutive la prima intitolata le smanie per la villeggiatura la seconda le avventure della villeggiatura la terza il ritorno dalla villeggiatura nella prima si vedono i pazzi preparativi nella seconda la folle condotta nella terza le conseguenze dolorose che ne provengono

*le smanie per la villeggiatura di carlo goldoni trama* - Dec 13 2022

web sep 21 2022 le smanie per la villeggiatura trama leonardo saputo che guglielmo andrà con l amata decide di non

partire fa disfare i bagagli ai servi fa restituire le merci prese a credito e provoca

**le smanie per la villeggiatura by carlo goldoni the storygraph** - Aug 09 2022

web le smanie per la villeggiatura carlo goldoni 100 pages missing pub info isbn uid 9781480037724 format paperback

language italian publisher createspace independent publishing platform publication date 02

le smanie per la villeggiatura youtube - Jun 07 2022

web lou maccarone in le smanie per la villeggiatura testo e musiche del maestro guzo gurradoregia attilio azzoladal 6 al 18 maggio 2014 al teatro leonardo da v

**carlo goldoni le smanie per la villeggiatura skoola net** - Jul 20 2023

web in questo appunto si descrive le smanie per la villeggiatura di carlo goldoni scritta da carlo goldoni nel 1761 le smanie per la villeggiatura è un opera teatrale che insieme a le

**le smanie per la villeggiatura by carlo goldoni open library** - Oct 11 2022

web le smanie per la villeggiatura by carlo goldoni 1972 f le monnier edition in italian

**le smanie per la villeggiatura wikisource** - Jun 19 2023

web le smanie per la villeggiatura da wikisource vai alla navigazione vai alla ricerca questo testo è stato riletto e controllato le smanie per la villeggiatura carlo goldoni 1761 informazioni sulla fonte del testo citazioni di questo testo questo testo fa parte della raccolta opere complete di carlo

*prentice hall focus on physical science k12 workbook* - Apr 03 2023

web 4 physical science prentice hall answers section assessment 2021 02 07 reproducible content to help students review and reinforce essential skills in individual science topics

**prentice hall science explorer physical science free** - Mar 02 2023

web each chapter contains a 4 page planning guide strategies for preparing teaching and closing lessons answers to in text questions tips on connecting physical science to

**prentice hall physical science assessment answer keys copy** - Apr 22 2022

web prentice hall physical science assessment answer key continuity of nasa earth observations from space classroom assessment and the national science education

**chapter 1 introduction to physical a science b c chapter 1** - Jul 06 2023

web chapter 1 assessment prentice hall science explorer physical science flashcards quizlet study with quizlet and memorize flashcards containing terms like when a piece

prentice hall physical science online textbook help - Aug 07 2023

web jan 22 2013 answer key chapter 1 introduction to physical science chapter 1 performance assessment the manipulated

variable is temperature the responding

[prentice hall physical science concepts in action](#) - Dec 31 2022

web assessment resources physical science 2000 prentice hall science explorer michael j padilla 2000 physical science assessment holt rinehart winston 2004

*answers prentice hall physical science assessments* - Nov 17 2021

*prentice hall physical science assessment answer keys* - Oct 29 2022

web prentice hall physical science answer key assessment prentice hall physical science answer key assessment 3 downloaded from waptac org on 2021 12 29

**physical science concepts in action 2nd edition quizlet** - Oct 09 2023

web now with expert verified solutions from physical science concepts in action 2nd edition you ll learn how to solve your toughest homework problems our resource for physical

*prentice hall physical science assessment answer keys full pdf* - Aug 27 2022

web aug 31 2023 enjoy now is prentice hall physical science assessment answers below matter building block of the universe 1993 physical science 1970 1981 1982 prentice

**answers for assessment prentice hall physical science pdf** - Sep 27 2022

web prentice hall physical science assessment answer keys whispering the strategies of language an emotional quest through prentice hall physical science assessment

**chapter 1 assessment prentice hall science explorer physical** - Jun 05 2023

web physical science chapter 15 stars galaxies and the universe view pdf 8 279 6 kb physical science reference part 4 index and acknowledgments view pdf 3 786 4

*prentice hall physical science assessment answer keys* - Jun 24 2022

web apr 2 2023 hall physical science assessment answer key as you such as by searching the title publisher or authors of guide you in point of fact want you can discover them

*physical science 1st edition solutions and answers quizlet* - Sep 08 2023

web now with expert verified solutions from physical science 1st edition you ll learn how to solve your toughest homework problems our resource for physical science includes

**physical science prentice hall answers section assessment** - Feb 01 2023

web merely said the prentice hall physical science assessment answer keys is universally compatible with any devices to read prentice hall physical science assessment

**1 physical science resources for teaching middle school** - Nov 29 2022

web we give prentice hall physical science assessment answer keys and numerous book collections from fictions to scientific research in any way among them is this prentice

*physical science textbook guerneville school* - May 04 2023

web 1 prentice hall physical science workbook answer key 2 prentice hall science explorer grade 8 3 physical science guided and study workbook answers 4

**prentice hall physical science assessment answer keys pdf** - Dec 19 2021

prentice hall physical science answer key assessment pdf - Jul 26 2022

web mar 26 2023 prentice hall physical science assessment answer keys 2 6 downloaded from uniport edu ng on march 26 2023 by guest one teaching resources volume

**prentice hall physical science assessment answer key pdf** - Mar 22 2022

web merely said the prentice hall physical science assessment answer keys is universally compatible with any devices to read integrated electronic systems westinghouse

**prentice hall physical science assessment answers copy** - May 24 2022

web prentice hall physical science answer key assessment below human biology and health michael j padilla 2002 a level physics multiple choice questions and

**prentice hall physical science answer key assessment pdf** - Feb 18 2022

web 4730486 answers prentice hall physical science assessments 2 17 downloaded from robbinsmanuscripts berkeley edu on by guest superposition of waves thermal physics

**prentice hall physical science assessment answer key pdf** - Jan 20 2022