Downloaded from Stanmorephysics.com



EDUCATION

MOGALAKWENA DISTRICT

NATIONAL SENIOR CERTIFICATE

GRADE 12

LIFE SCIENCES PRE-MIDYEAR EXAMINATION ASSESSMENT: 2023.

TOTAL MARKS: 150 TIME: 2,5 HOURS Stanmorephysics

This question paper consists of 17 pages including the cover page.

<u>Limpopo Life Science Papermemo September 2014</u>

Victor M. Corman

Limpopo Life Science Papermemo September 2014:

Embark on a breathtaking journey through nature and adventure with Crafted by is mesmerizing ebook, Natureis Adventure: **Limpopo Life Science Papermemo September 2014**. This immersive experience, available for download in a PDF format (*), transports you to the heart of natural marvels and thrilling escapades. Download now and let the adventure begin!

https://splashdogs.com/files/detail/HomePages/international maxxforce repair manual.pdf

Table of Contents Limpopo Life Science Papermemo September 2014

- 1. Understanding the eBook Limpopo Life Science Papermemo September 2014
 - The Rise of Digital Reading Limpopo Life Science Papermemo September 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Limpopo Life Science Papermemo September 2014
 - 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 Limpopo Life Science Papermemo September 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Limpopo Life Science Papermemo September 2014
 - Personalized Recommendations
 - Limpopo Life Science Papermemo September 2014 User Reviews and Ratings
 - Limpopo Life Science Papermemo September 2014 and Bestseller Lists
- 5. Accessing Limpopo Life Science Papermemo September 2014 Free and Paid eBooks
 - o Limpopo Life Science Papermemo September 2014 Public Domain eBooks
 - Limpopo Life Science Papermemo September 2014 eBook Subscription Services
 - Limpopo Life Science Papermemo September 2014 Budget-Friendly Options
- 6. Navigating Limpopo Life Science Papermemo September 2014 eBook Formats

- ∘ ePub, PDF, MOBI, and More
- Limpopo Life Science Papermemo September 2014 Compatibility with Devices
- Limpopo Life Science Papermemo September 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Limpopo Life Science Papermemo September 2014
 - Highlighting and Note-Taking Limpopo Life Science Papermemo September 2014
 - Interactive Elements Limpopo Life Science Papermemo September 2014
- 8. Staying Engaged with Limpopo Life Science Papermemo September 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - o Following Authors and Publishers Limpopo Life Science Papermemo September 2014
- 9. Balancing eBooks and Physical Books Limpopo Life Science Papermemo September 2014
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Limpopo Life Science Papermemo September 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Limpopo Life Science Papermemo September 2014
 - Setting Reading Goals Limpopo Life Science Papermemo September 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Limpopo Life Science Papermemo September 2014
 - Fact-Checking eBook Content of Limpopo Life Science Papermemo September 2014
 - 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

Limpopo Life Science Papermemo September 2014 Introduction

In todays digital age, the availability of Limpopo Life Science Papermemo September 2014 books and manuals for download has revolutionized the way we access information. Gone are the days of physically flipping through pages and carrying heavy textbooks or manuals. With just a few clicks, we can now access a wealth of knowledge from the comfort of our own homes or on the go. This article will explore the advantages of Limpopo Life Science Papermemo September 2014 books and manuals for download, along with some popular platforms that offer these resources. One of the significant advantages of Limpopo Life Science Papermemo September 2014 books and manuals for download is the cost-saving aspect. Traditional books and manuals can be costly, especially if you need to purchase several of them for educational or professional purposes. By accessing Limpopo Life Science Papermemo September 2014 versions, you eliminate the need to spend money on physical copies. This not only saves you money but also reduces the environmental impact associated with book production and transportation. Furthermore, Limpopo Life Science Papermemo September 2014 books and manuals for download are incredibly convenient. With just a computer or smartphone and an internet connection, you can access a vast library of resources on any subject imaginable. Whether youre a student looking for textbooks, a professional seeking industry-specific manuals, or someone interested in self-improvement, these digital resources provide an efficient and accessible means of acquiring knowledge. Moreover, PDF books and manuals offer a range of benefits compared to other digital formats. PDF files are designed to retain their formatting regardless of the device used to open them. This ensures that the content appears exactly as intended by the author, with no loss of formatting or missing graphics. Additionally, PDF files can be easily annotated, bookmarked, and searched for specific terms, making them highly practical for studying or referencing. When it comes to accessing Limpopo Life Science Papermemo September 2014 books and manuals, several platforms offer an extensive collection of resources. One such platform is Project Gutenberg, a nonprofit organization that provides over 60,000 free eBooks. These books are primarily in the public domain, meaning they can be freely distributed and downloaded. Project Gutenberg offers a wide range of classic literature, making it an excellent resource for literature enthusiasts. Another popular platform for Limpopo Life Science Papermemo September 2014 books and manuals is Open Library. Open Library is an initiative of the Internet Archive, a non-profit organization dedicated to digitizing cultural artifacts and making them accessible to the public. Open Library hosts millions of books, including both public domain works and contemporary titles. It also allows users to borrow digital copies of certain books for a limited period, similar to a library lending system. Additionally, many universities and educational institutions have their own digital libraries that provide free access to PDF books and manuals. These libraries often offer academic texts, research papers, and technical manuals, making them invaluable resources for students and researchers. Some notable examples include MIT OpenCourseWare, which offers free access to course materials from the Massachusetts Institute of Technology, and the Digital Public Library of America, which

provides a vast collection of digitized books and historical documents. In conclusion, Limpopo Life Science Papermemo September 2014 books and manuals for download have transformed the way we access information. They provide a cost-effective and convenient means of acquiring knowledge, offering the ability to access a vast library of resources at our fingertips. With platforms like Project Gutenberg, Open Library, and various digital libraries offered by educational institutions, we have access to an ever-expanding collection of books and manuals. Whether for educational, professional, or personal purposes, these digital resources serve as valuable tools for continuous learning and self-improvement. So why not take advantage of the vast world of Limpopo Life Science Papermemo September 2014 books and manuals for download and embark on your journey of knowledge?

FAQs About Limpopo Life Science Papermemo September 2014 Books

- 1. Where can I buy Limpopo Life Science Papermemo September 2014 books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
- 2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
- 3. How do I choose a Limpopo Life Science Papermemo September 2014 book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
- 4. How do I take care of Limpopo Life Science Papermemo September 2014 books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
- 5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
- 6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
- 7. What are Limpopo Life Science Papermemo September 2014 audiobooks, and where can I find them? Audiobooks:

- Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
- 8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
- 9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.
- 10. Can I read Limpopo Life Science Papermemo September 2014 books for free? Public Domain Books: Many classic books are available for free as theyre in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Limpopo Life Science Papermemo September 2014:

international maxxforce repair manual

internet only manual for medicare

intro to psychology college book

intro to engineering book

internet security students report

international dt466 engine manual

international finance paperback

international journal of business science and applied management impact factor

international tennis number manual

introduction risk management 8th edition

introducing semiotics a graphic guide

intrepid ibex installation guide

intrigue on manitouana

interventional radiology procedure manual

international finance solutions manual 5th edition

Limpopo Life Science Papermemo September 2014:

suggested next test life and work reading tests casas - Aug 04 2022

web casas test forms by level reading level life work series beg literacy 27r 28r a 81r 82r ax 81rx 82rx b 83r 84r x level tests are a bridge to the next level c 185r 186r 85r 86r forms 85 and 86 should not be used as d 187r 188r post tests to forms 185 and 186

casas sample test items casas portal casas etests casas - Dec 08 2022

web sample test items use the links on the left to access sample items familiarize decision makers teachers and students with casas items give students practice in taking a casas test make future testing go more smoothly help reduce student test taking anxiety these items are samples to familiarize students with casas test formats

skill level descriptors for ell casas - Jul 03 2022

web note this chart provides general skill descriptors by level refer to test administration manuals for specific cut scores by test series descriptors 250 240 235 230 225 220 215 210 205 200 190 180 150 scale scores casas by test series casas org created date 7 12 2016 2 04 45 pm

reading casas - Sep 05 2022

web to administer the reading sample test items in the classroom before testing 1 make sure all testing materials are ready reading sample test items booklets for level a b c or d staple the pages together topspro test record note casas gives permission to duplicate the topspro test record for use only with these sample

casas practice tests staff whittier union adult school - Mar 11 2023

web casas practice tests click on the test level you are interested in these tests may be copied and may be used by students to prepare for the casas test there are 5 questions provided for each level the answer key precedes the test also see more casas resources to link to more practice at levels a and a extended 81 82 and 81 82x

casas practice ell 5 at hubbs center - Apr 12 2023

web casas life and work reading practice level d print pdf file size 111 kb file type pdf

assessing english language learners casas org - Oct 06 2022

web casas tests measure reading listening writing and speaking from beginning literacy through advanced adult secondary levels tests are based on casas competencies and casas content standards learn the benefits of casas to meet your needs one system for all program assessment needs

casas 186r test - Mar 31 2022

web quia appliance ads reading casas practice 186 c casas vocabulary practice flashcards quizlet casas skill levels correlation to test forms casas scaled score references for grade levels july 8th 2018 esl resources program casas test

preparation materials developed by laura chardiet and eleanor comegys casas exam practice test for casas quiz reading goals level a youtube - Jan 09 2023

web feb 6 2020 casas quiz reading goals level a level b for esl ell eld casas exam practice test for english prepare for the exam with questions and answers from the

casas test exercises all levels mrs rango s esl class - Nov 07 2022

web casas test exercises links to activities to form 81 82r web esl com ila ila81r html quia com quiz 678006 html ap rand 1420092271 quia com rr 111381 html

casas skill level descriptors - May 13 2023

web casas skill level descriptors the casas skill level descriptors show a continuum of skills from beginning through advanced adult secondary they provide descriptions of adults general job related ability in reading mathematics oral communication and writing

reading skills casas test practice saint paul public schools - Feb 10 2023

web casas test practice online go to this site from seminole state college of florida and practice answering these test question samples the questions are similar to the casas test try the last 2 levels the high intermediate and the advanced levels good luck

the smart manager s guide to action ace of florida foundation - Feb 27 2022

web casas nrs approved assessments for esl nrs approved through february 2021 like all other nrs approved esl tests life and work reading 80 series beginning literacy forms 27 and 28 and life and work listening 980 series next steps for goals reading goals for esl octae has requested additional data

scale score ranges casas - Jun 14 2023

web scale score ranges these charts provide a visual representation of the test forms in the four series and how they relate to student skill levels in terms of the casas and nrs scales in this way they show the comparative level of difficulty of the tests and how they overlap in providing an array of test instruments for assessing learning progress

6 sınıf hazırbulunuşluk testi ve cevapları 2023 2024 - Jan 29 2022

web 6 sınıfa geçenler hazırbulunuşluk testi seviye tespit sınavı 6 siniflar 2 dÖnem hazirbulunuşluluk sinavi seviye tespit sınavı 6 siniflar sene başi sevİye tespİt belİrleme sinavi 6 sınıf 1 dönem genel tekrar testi 6 sınıf sts cevap anahtarlı 6 sinif 2 dÖnem sevİye tespİt sinavi 6 sınıf sts

life and work reading casas - Aug 16 2023

web casas etests life and work reading and life and work listening is listening reading essential listening and reading comprehension series from casas helps monitor the progress of your esl ell vesl students it also helps identify the listening

skills reading skills that your english language students need

casas test ela guide research guides at skagit valley - May 01 2022

web feb 27 2023 casas casas is the most widely used competency based assessment system in the united states designed to assess the relevant real world basic skills of adult learners casas measures the basic skills and the english language and literacy skills needed to function effectively at work and in life

individual learning activities web esl com - Jun 02 2022

web individual learning activities links to activities to form 27 28 links to activities to form 81 82 r links to activities to form 81 rx 82 rx links to activities to form 83 r 84 r links to activities to form 185 r 186 r casas competencies links for english level 0 casas competencies links for english level 1

test preparation prepare for casas burlingtonenglish - Jul 15 2023

web test taking skills for student success prepare for casas is a powerful teaching tool for student success that includes reading and listening tests the practice tests are closely aligned and correlated to casas to ensure that students receive the exact practice they need to improve their test scores and make learning gains

ca esl model standards casas - Dec 28 2021

web casas and california esl model standards the esl model standards document get adobe reader originally published by the california department of education in 1992 reflects thinking about developmental stages in second language acquisition and the nature of communicative competence the goals of the document are to enrich curriculum and solubility curves pths honors chemistry - Apr 17 2023

web answer the following questions based on the solubility curve below which salt is least soluble in water at 20 c 2 how many grams of potassium chloride can be dissolved in 200 g of water at 80 c io 3 at 40 c how much potassium nitrate coin be dissolved in 30d g of water w 4 which salt shows the least change

solubility curves lab answers solubility curves course hero - Aug 09 2022

web different substances q why do temperatures range from 0 100 c a water is a liquid at these temperatures solubility curves tell us how much solid will dissolve at a given temperature they also allow certain calculations solubility curves virtual lab best notes of english studocu - May 18 2023

web chemistry solubility curves virtual lab curves to clearly show the solubility of the four ionic compounds in the data table below the following tips will help you make the best possible graph make the graph large it should fill three fourths of the graph paper

solubility curve lab university of manitoba - Jul 20 2023

web solvents the larger volume of the mixture and solutes the smaller volume of the mixture for example a hot chocolate is a

solution in which the solute the chocolate powder is dissolved in the solvent the milk or water the solute and solvent can be **solubility curve lab sheet docx course hero** - Feb 03 2022

web solubility curve lab sheet pre lab 1 define the terms solute solvent and solution in your definition describe a solution found in your everyday life solute a solute is the component of the mixture that is dissolved such as the powdered drink solved solubility curve of potassium nitrate purpose in chegg - Sep 10 2022

web question solubility curve of potassium nitrate purpose in this experiment you will determine the solubilities of potassium nitrate in water at various temperatures and construct a solubility curve for knoy

solubility unit teacher guidel 3 jul 11 hofstra university - Jun 07 2022

web they should be able to come up with the following answers stir the water increase the temperature and increase the amount of water alternately you may challenge the students to a contest

7 11 solubility calculations chemistry libretexts - Jan 14 2023

web use a solubility curve to determine whether a solution is saturated or unsaturated and to estimate the amount of excess solute that remains undissolved in the solution

2 3 solubility lab report chemistry libretexts - Feb 15 2023

web give results of all calculations in blue cells you must put your answers in the indicated cells as the grade book pulls your data from those cells do not put any units in the number cells use the unit boxes given graph tab transfer from data page the temp and concentration of salt in units of g salt 100 g water

lab solubility curves of a solid lab solubility curves of - Jul 08 2022

web answer key 4th edition ap psychology unit 1 study guide 1 3 discussion population samples and bias lab solubility curves of a solid purpose to determine how the solubility of a salt ammonium chloride varies with temperature in order to create a solubility curve based on observed data

powerpoint solubility curves lab results and answers - May 06 2022

web 30 09 99 solubility curves class data write down the data answer questions on bottom of the sheet results of lab solubility of kclo3 unsaturated saturation and solubility curves in this experiment we expressed concentration in units of g solute g h2o putting concentrations in g solute g solution would be tedious and impractical see fig 2 solubility 1 1 4 edexcel igcse chemistry revision notes 2019 - Mar 04 2022

web use the solubility curve to answer these questions determine how much potassium nitrate will dissolve in 20~g of water at 40~c 200~cm 3 of saturated lead ii nitrate solution was prepared at a temperature of 90~c

2 2 solubility lab chemistry libretexts - Aug 21 2023

web collect experimental data and create a solubility curve by the end of this lab students should be able to properly use an

analytical balance to measure mass set up an experimental work station to measure the solubility of a salt in water as a function of the temperature generate a workbook using google sheets prior knowledge

solubilitytemperaturese key solubility and temperature answer - Apr 05 2022

web sample answer sugar has a much greater solubility in hot water than cold water so its solubility curve probably resembles the sloping solubility curve of potassium nitrate temperature solubility g 100 ml 10 c 36 g 100 ml 20 c 36 g 100 ml 30 c 37 g 100 ml 40 c 37 g 100 ml 50 c 38 g 100 ml 60 c 38 g 100 ml 70 c 39 g 100 ml 80

lab solubility assignment reflect on the lab flashcards - Mar 16 2023

web 2 days ago study with quizlet and memorize flashcards containing terms like to test the hypothesis above you changed the of the solvent and measured the of a solid therefore the independent variable was and the dependent variable was the results of this lab experiment the hypothesis and more

potassium nitrate solubility curve lab the effect of studocu - Jun 19 2023

web may 29 2018 figure 2 the graph shows the solubility curve of potassium nitrate with corresponding temperatures as the temperature increases so does the solubility of the solution a y 0 2 1 61 b y 0 2 1 61 0 60 2 1 60 61 0 40 2 1 40 61 8 5 g 100 ml 4 6 g 100 ml

11 thermodynamics of solubility chemistry libretexts - Oct 11 2022

web mar 15 2021 this experiment will further develop your understanding of thermodynamics while relating it to two concepts you already have studied equilibrium and solubility you will determine three thermodynamic values associated with the solubility of potassium nitrate the reaction we will be studying is the dissolution of potassium nitrate in water lab solubility curve of potassium nitrate studylib net - Jan 02 2022

web analysis construct a solubility curve using the mass of solute that will dissolve in 100 g of water at a specified temperature in this lab 5 ml of water was used assume 1 0 g ml of water take the collected data make it proportional to get the solubility of the kno3 graph temperature vs solubility using a best fit curve

chem 1403 solubility curves chemistry libretexts - Dec 13 2022

web apr 19 2021 chem 1403 solubility curves chem 1403 le chatlier s principle chem 1403 solubility product david yaron chemcollective carnegie mellon university

solubility curves virtual lab chem253 harvard studocu - Nov 12 2022

web part i construct a single graph with multiple solubility curves to clearly show the solubility of the four ionic compounds in the data table below the following tips will help you make the best possible graph

alter ego 1 cahier d activités cd audio by hachette - Apr 30 2022

web alter ego a1 cahier d activités 1 pdf free download as pdf file pdf or read online for free

alter ego 1 cahier d activités archive org - Jul 14 2023

web mar 29 2015 alter ego 1 cahier d activites topics alter ego 1 cahier d activites collection opensource alter ego 1 cahier d activites addeddate 2015 03 29 12 46 43

alter ego 1 a1 cahier d activites cd audio govalpublishers - Jul 02 2022

web alter ego 1 cahier d activites alter ego 1 cahier d activites Екатерина Фрид

pdf alter ego 1 cahier d activites academia edu - Jan 28 2022

alter ego 1 cahier d activites pdf scribd - Oct 25 2021

alter ego cahier d activites cd audio a1 paperback - Feb 26 2022

web alter ego 1 corrigÉs du cahier d activitÉs edselin lopez aguilar

alter ego 1 corrigÉs du cahier d activitÉs - Mar 10 2023

web alter ego 1 cahier d activites read online for free this file consists of activities of the alter ego activity book

alter ego 1 cahier d activites archive org - Dec 27 2021

alter ego a1 cahier d activités pdf pdf scribd - Nov 25 2021

alter ego a1 cahier d activités pdf scribd - Oct 05 2022

web alter ego a1 cahier d activités d0 resuelto denisse carolain paz arica guide de conversation pour voyageurs guide voyage en 6 langues avec 400 phrases et

alter ego 1 cahier d activites pdf scribd - Dec 07 2022

web aug 21 2020 outil complémentaire du livre de l'élève le cahier d'activités offre des exercices de réemploi afin de renforcer les points abordés dans le livre des activités de

pdf alter ego a1 cahier d activites academia edu - Aug 15 2023

web corrigé cahier d activités transcriptions alter ego 1 wl1p0w9r89lj idocpub home current explore explore all upload alter ego b1 cahier d activites october

alter ego 1 cahier d activités hachette fle méxico - Nov 06 2022

web alter ego 1 a1 cahier d activites cd audio publisher goyal publishers isbn 9788183075459 tweet rs 349 00 rs 395 00 qty ask about this product add to wishlist

alter ego plus a1 cahier d activités free download borrow - Apr 11 2023

web download alter ego a1 cahier d activités free in pdf format account 52 167 144 130 login register search search partner sites youtube to mp3 converter about us this

alter ego 1 corrigÉs du cahier d activitÉs - Sep 23 2021

alter ego niveau 1 cahier d activités youtube - Sep 04 2022

web alter ego 1 cahier d activités cd audio hachette 0 00 0 ratings0 reviews le cahier propose de valider et de renforcer les connaissances acquises à travers une grande

alter ego 1 cahier d activites archive org - May 12 2023

web alter ego 1 corrigÉs du cahier d activitÉs

corrigé cahier d activités transcriptions alter ego 1 - Jun 13 2023

web jan 30 2023 alter ego plus a1 cahier d activités track 28 flac download 5 1m alter ego plus a1 cahier d activités track 29 flac download

alter ego 1 cahier d activités cd audio french - Mar 30 2022

web alter ego 1 cahier d activites free download as pdf file pdf or read online for free

alter ego a1 cahier d activités langpath - Aug 03 2022

web amazon in buy alter ego cahier d activites cd audio a1 book online at best prices in india on amazon in read alter ego cahier d activites cd audio a1 book

alter ego a1 cahier d activites pdf scribd - Jun 01 2022

web may 7 2017 alter ego 1 cahier d activites topics french franà ais learn collection opensource it s a book of french addeddate 2017 05 07 19 11 27 identifier

pdf alter ego a1 cahier d activités free download pdf - Jan 08 2023

web 5 85k subscribers 503 28k views 2 years ago french français francés alter ego niveau 1 cahier d activités pdf sur google drive livre en pdf

hachette alter ego a1 cahier d activites pdf - Feb 09 2023

web libro de tareas alter ego a1 by lucy 950110 libro de tareas alter ego a1 menu de navigation ouvert fermer les suggestions recherche recherche enregistrer