

Graphing Periodic Trends Activity

Name: _____ Period: _____

Use the information in these tables to complete the graph as described below

Symbol	Atomic Radius (Picometers)	First Ionization energy (kJoules/mole)	Electronegativity (4-point scale)
H	31	1312	2.1
Li	128	520	1.0
Na	166	496	0.9
K	203	410	0.8
Rb	220	403	0.8
Cs	244	376	0.7

Symbol	Atomic Radius (Picometers)	First Ionization energy (kJoules/mole)	Electronegativity (4-point scale)
Na	166	496	0.9
Mg	141	738	1.2
Al	121	578	1.5
Si	111	787	1.8
P	107	1012	2.1
S	105	1000	2.5
Cl	102	1251	3.0
Ar	106	1521	---

- Using colored pencils or pen, list under the symbol (in this order!) the Atomic Radius, First Ionization Energy, and Electronegativity.
- Use a different color for each property. Example: Write all of the Atomic radius values in red, all of the First ionization energies in green, and all of the Electronegativities in blue. Of course, you can pick any colors that are available, as long as you are consistent.
- Observe the trends in each property as you go down the Alkali metal group, and as you go across Period 3.
- Write out each of the statements written on the opposite side, completing each statement with the observed trend (increase or decrease)

H	<p>Across a period (→) atomic radius tends to _____.</p> <p>Across a period (→) first ionization energy tends to _____.</p> <p>Across a period (→) electronegativity tends to _____.</p>						
Li							
Na 166 496 0.9	Mg	Al	Si	P	S	Cl	Ar
K	<p>Down a Group (↓) atomic radius tends to _____.</p> <p>Down a Group (↓) first ionization energy tends to _____.</p> <p>Down a Group (↓) electronegativity tends to _____.</p>						
Rb							
Cs							

Periodic Trends A Graphical Analysis Answer Key

Jianjun Gao



Periodic Trends A Graphical Analysis Answer Key:

Right here, we have countless ebook **Periodic Trends A Graphical Analysis Answer Key** and collections to check out. We additionally allow variant types and along with type of the books to browse. The gratifying book, fiction, history, novel, scientific research, as competently as various other sorts of books are readily understandable here.

As this Periodic Trends A Graphical Analysis Answer Key, it ends in the works instinctive one of the favored books Periodic Trends A Graphical Analysis Answer Key collections that we have. This is why you remain in the best website to see the unbelievable ebook to have.

https://crm.avenza.com/results/book-search/Download_PDFS/Python%20Language%20Reference%20Manual.pdf

Table of Contents Periodic Trends A Graphical Analysis Answer Key

1. Understanding the eBook Periodic Trends A Graphical Analysis Answer Key
 - The Rise of Digital Reading Periodic Trends A Graphical Analysis Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Periodic Trends A Graphical Analysis Answer Key
 - 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 Periodic Trends A Graphical Analysis Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Periodic Trends A Graphical Analysis Answer Key
 - Personalized Recommendations
 - Periodic Trends A Graphical Analysis Answer Key User Reviews and Ratings
 - Periodic Trends A Graphical Analysis Answer Key and Bestseller Lists
5. Accessing Periodic Trends A Graphical Analysis Answer Key Free and Paid eBooks

- Periodic Trends A Graphical Analysis Answer Key Public Domain eBooks
 - Periodic Trends A Graphical Analysis Answer Key eBook Subscription Services
 - Periodic Trends A Graphical Analysis Answer Key Budget-Friendly Options
6. Navigating Periodic Trends A Graphical Analysis Answer Key eBook Formats
- ePub, PDF, MOBI, and More
 - Periodic Trends A Graphical Analysis Answer Key Compatibility with Devices
 - Periodic Trends A Graphical Analysis Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Periodic Trends A Graphical Analysis Answer Key
 - Highlighting and Note-Taking Periodic Trends A Graphical Analysis Answer Key
 - Interactive Elements Periodic Trends A Graphical Analysis Answer Key
8. Staying Engaged with Periodic Trends A Graphical Analysis Answer Key
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Periodic Trends A Graphical Analysis Answer Key
9. Balancing eBooks and Physical Books Periodic Trends A Graphical Analysis Answer Key
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Periodic Trends A Graphical Analysis Answer Key
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Periodic Trends A Graphical Analysis Answer Key
- Setting Reading Goals Periodic Trends A Graphical Analysis Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Periodic Trends A Graphical Analysis Answer Key
- Fact-Checking eBook Content of Periodic Trends A Graphical Analysis Answer Key
 - 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

Periodic Trends A Graphical Analysis Answer Key Introduction

Periodic Trends A Graphical Analysis Answer Key Offers over 60,000 free eBooks, including many classics that are in the public domain. Open Library: Provides access to over 1 million free eBooks, including classic literature and contemporary works. Periodic Trends A Graphical Analysis Answer Key Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Periodic Trends A Graphical Analysis Answer Key : This website hosts a vast collection of scientific articles, books, and textbooks. While it operates in a legal gray area due to copyright issues, its a popular resource for finding various publications. Internet Archive for Periodic Trends A Graphical Analysis Answer Key : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Periodic Trends A Graphical Analysis Answer Key Offers a diverse range of free eBooks across various genres. Periodic Trends A Graphical Analysis Answer Key Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Periodic Trends A Graphical Analysis Answer Key Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Periodic Trends A Graphical Analysis Answer Key, especially related to Periodic Trends A Graphical Analysis Answer Key, might be challenging as theyre often artistic creations rather than practical blueprints. However, you can explore the following steps to search for or create your own Online Searches: Look for websites, forums, or blogs dedicated to Periodic Trends A Graphical Analysis Answer Key, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Periodic Trends A Graphical Analysis Answer Key books or magazines might include. Look for these in online stores or libraries. Remember that while Periodic Trends A Graphical Analysis Answer Key, sharing copyrighted material without permission is not legal. Always ensure youre either creating your own or obtaining them from legitimate sources that allow sharing and downloading. Library Check if your local library offers eBook lending services. Many libraries have digital catalogs where you can borrow Periodic Trends A Graphical Analysis Answer Key eBooks for free, including popular titles. Online Retailers: Websites like Amazon, Google Books, or Apple Books often sell eBooks. Sometimes, authors or publishers offer promotions or free periods for certain books. Authors Website Occasionally, authors provide excerpts or short stories for free on their websites. While this might not be the Periodic Trends A Graphical Analysis Answer Key full book , it can give you a taste of the authors writing style. Subscription Services

Platforms like Kindle Unlimited or Scribd offer subscription-based access to a wide range of Periodic Trends A Graphical Analysis Answer Key eBooks, including some popular titles.

FAQs About Periodic Trends A Graphical Analysis Answer Key Books

What is a Periodic Trends A Graphical Analysis Answer Key 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 Periodic Trends A Graphical Analysis Answer Key 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 Periodic Trends A Graphical Analysis Answer Key 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 Periodic Trends A Graphical Analysis Answer Key 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 Periodic Trends A Graphical Analysis Answer Key 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 Periodic Trends A Graphical Analysis Answer Key :

python language reference manual

~~quest ce que l'histoire environnementale~~

quand le pouvoir de la pensee l'emporte sur les medecaments

qma certification study guide

quantum mechanics townsend solutions

qtp 10 user guide

quadrilateral properties chart answer key

qualcast classic 35 manual

quantum study guide answers

quantitative chemical analysis harris solutions manual 8

q see qt4516 manual

pz 200 haybob manual

quantum physics eisberg resnick solutions manual

quality systems manual pharmaceutical industry

qsc cx204v user guide

Periodic Trends A Graphical Analysis Answer Key :

bangla mcq - Apr 30 2022

web bangla mcq about bangla general knowledge bangladesh world history science and all others

recent 50 mcq january 2021 general knowledge bangladesh - Jan 08 2023

web recent 50 mcq january 2021 general knowledge bangladesh and international affairs daily visit our site bcspreparation net

general knowledge mcq in bengali archives - Nov 06 2022

web aug 19 2020 mcq daily general awareness bengali mcq

mcq - Jul 14 2023

web oct 4 2021 general knowledge questions and answers on bangladesh bangla quiz mcq 4 8 5 234 votes

web jan 3 2022 bcs preparation 8 554 important questions and answers from recent general knowledge bangladesh and international affairs are discussed below this article will be very helpful for those of you who are participating in various

competitive exams bangladesh affairs ques who has been chosen the first bangabandhu chair at

[apps on google play](#) - Jan 28 2022

web aug 9 2022 general knowledge bangladesh affairs mcq our general knowledge bangladesh affairs 2022 app is for those who want to prepare part of bcs general knowledge bangladesh affairs for any government private and bcs job exam

[mcq contest bcs bank govt jobs mcq preparation free](#) - Mar 30 2022

web all type of govt jobs bcs bank admission mcq question practice exam best online free software in bangladesh bangla english math general knowledge computer and more subject mcq question bank

[gk mcq and answer archives bd question](#) - Dec 27 2021

web bangladesh affairs bengali grammar bengali literature computer it english general knowledge general science geography international affairs mathematical topics other model test other topics all bangladesh affairs

recent 150 mcq general knowledge bangladesh and international youtube - Dec 07 2022

web sep 11 2020 recent 150 mcq general knowledge bangladesh and international affairsdailly visit our site bcspreparation net

[recent govt job exams 100th mcq general knowledge bangladesh](#) - Feb 26 2022

web oct 14 2021 recent govt job exams 2021 100th mcq general knowledge bangladesh affairs international affairs gk mcq 2021

general knowledge in bangla mcq - Aug 15 2023

web nov 13 2020 general knowledge in bangla questions and answers bangla gk questions

[general knowledge in bangla questions and answers bangla gk questions](#) - May 12 2023

web bangladesh affairs and international affairs related general knowledge mcq question and answers for bcs govt job bank job university admission test and any other competitive exams

[hikaru no go vol 1 descent of the go master hikaru](#) - Oct 07 2022

web apr 30 1999 hikaru no go hikaru s go is my all time favourite manga series it s a coming of age story about a boy hikaru shindō who learns how to play go the board game after he finds an old board in his grandfather s shed the board is haunted by the spirit of fujiwara no sai nicknamed sai the best go player in history from the heian

hikaru no go gn vol 01 descent of the go master volume 1 - May 14 2023

web hikaru no go gn vol 01 descent of the go master volume 1 hotta yumi obata takeshi amazon co uk books

[volume 1 hikaru no go wiki fandom](#) - Jul 16 2023

web descent of the go master kiseikōrin is the first volume of hikaru no go manga descent of the go master hikaru

shindo is like any sixth grader in japan a pretty normal schoolboy with a two tone head of hair and a penchant for antics one day he finds an old bloodstained go board in his

hikaru no go volume 1 descent of the go master by hotta - Jul 04 2022

web hikaru no go volume 1 descent of the go master by hotta yumi 2004 paperback on amazon com free shipping on qualifying offers hikaru no go volume 1 descent of the go master by hotta yumi 2004 paperback

hikaru no go vol 1 descent of the go master kindle comixology - Jan 10 2023

web trapped inside the go board is fujiwara no sai the ghost of an ancient go master who taught the strategically complex board game to the emperor of japan many centuries ago in one fateful moment sai becomes a part of hikaru s consciousness and together through thick and thin they make an unstoppable go playing team

hikaru no go vol 1 descent of the go master kindle edition - Aug 05 2022

web language english grade level 4 6 publisher viz media shonen jump publication date 19 march 2012 page flip not enabled word wise

hikaru no go İstanbul go okulu - Sep 25 2021

web apr 13 2011 hikaru nun kendini bulmasını yolunu çizmesini ve adam olma yolculuğunu go oyunu ekseninde izleyicilerine aktarırken go yu tanıtmaya görevi yüklenmişçesine yoğun bir şekilde oyun ve oyuncu ortamı ile ilgili tarihi bir kesit de sunmakta yumi hotta tarafından yazılıp takeşi obata tarafından çizilen eser 1998 de japon weekly Shonen jump manga

hikaru no go volume 1 descent of the go master alibris - Feb 28 2022

web buy hikaru no go volume 1 descent of the go master by yumi hotta takeshi obata online at alibris we have new and used copies available in 1 editions starting at 3 95 shop now hikaru no go vol 5 volume 5 by yumi hotta starting at 3 71 hikaru no go vol 4 volume 4 by yumi hotta starting at 1 50 customer reviews

hikaru no go vol 1 descent of the go master amazon co uk - Aug 17 2023

web 1 star 4 this is where hikaru no go comes in taking the youth by storm and literally turning the go world around it takes a presumptively boring game which only oldies are thought to play and incorporates it into a teenager s manga and it s no one trick pony as to how it popularizes go practically overnight

hikaru no go vol 1 descent of the go master amazon com - Jun 15 2023

web mar 19 2012 hikaru no go vol 1 descent of the go master kindle edition by hotta yumi obata takeshi download it once and read it on your kindle device pc phones or tablets use features like bookmarks note taking and highlighting while reading hikaru no go vol 1 descent of the go master

hikaru no go vol 1 the go masters descent dvd - Jan 30 2022

web dec 27 2005 watch instantly with per episode buy season hikaru no go season 1 english dubbed 19 99 customers who

viewed this item also viewed

hikaru no go 1 descent of the go master worldcat org - Sep 06 2022

web hikaru no go 1 descent of the go master yumi hotta takeshi obata yukari umezawa hikaru shindo is like any sixth grader in japan a pretty normal school boy with a two tone head of hair and a penchant for antics

hikaru no go vol 1 volume 1 descent of the go master - Dec 09 2022

web may 19 2004 trapped inside the go board is fujiwara no sai the ghost of an ancient go master who taught the strategically complex board game to the emperor of japan many centuries ago in one fateful moment sai becomes a part of hikaru s consciousness and together through thick and thin they make an unstoppable go playing team

hikaru no go volume 1 descent of the go master thriftbooks - Jun 03 2022

web buy a cheap copy of hikaru no go vol 1 descent of the go book by yumi hotta after stumbling across a haunted go board hikaru shindo discovers that the spirit of a master player named fujiwara no sai has taken up residence in

hikaru no go vol 1 descent of the go master ebook - Feb 11 2023

web mar 19 2012 trapped inside the go board is fujiwara no sai the ghost of an ancient go master who taught the strategically complex board game to the emperor of japan many centuries ago in one fateful moment sai becomes a part of hikaru s consciousness and together through thick and thin they make an unstoppable go playing team

hikaru no go volume 1 descent of the go master alibris - Dec 29 2021

web buy hikaru no go volume 1 descent of the go master by yumi hotta takeshi obata online at alibris we have new and used copies available in 0 edition starting at shop now hikaru no go vol 22 starting at 3 35 hikaru no go vol 5 starting at 5 00 hikaru no go vol 8 starting at 2 10 see more related books

hikaru no go vol 1 descent of the go master worldcat org - Mar 12 2023

web one day he finds an old bloodstained go board in his grandfather s attic and that s when things get really interesting trapped inside the go board is fujiwara no sai the ghost of an ancient go master who taught the strategically complex board game to the emperor of japan many centuries ago cover

hikaru no go vol 1 descent of the go master kindle edition - Apr 01 2022

web mar 19 2012 hikaru no go vol 1 descent of the go master ebook hotta yumi obata takeshi amazon ca kindle store

hikaru no go gn vol 01 descent of the go master volume 1 - Nov 08 2022

web hikaru no go gn vol 01 descent of the go master volume 1 obata takeshi hotta yumi amazon com tr kitap

hikaru no go vol 1 on apple books - Apr 13 2023

web mar 19 2012 trapped inside the go board is fujiwara no sai the ghost of an ancient go master who taught the strategically complex board game to the emperor of japan many centuries ago in one fateful moment sai becomes a part of

hikaru s consciousness and together through thick and thin they make an unstoppable go playing team

hikaru no go volume 1 descent of the go master by yumi hotta - May 02 2022

web may 19 2004 booktopia has hikaru no go volume 1 descent of the go master by yumi hotta buy a discounted paperback of hikaru no go volume 1 online from australia s leading online bookstore

hikaru no go vol 1 descent of the go master engli franois - Nov 27 2021

web 1 hikaru no go vol 1 descent of the go master engli yeah reviewing a book hikaru no go vol 1 descent of the go master engli could mount up your near links listings this is just one of the solutions for you to be successful as understood triumph does not suggest that you have wonderful points

hikaru no go vol 1 descent of the go master engli reiko - Oct 27 2021

web why go is known as a game of genius and a go master is respected as a master of life this book tells us about his life long training which has contributed his amazing achievement in go what is his secret victory comes to us when we contemplate with steadfast focus on the essence the great go master shows us the way to find inner

what the dog saw and other adventures amazon in - Jul 02 2022

web amazon in buy what the dog saw and other adventures book online at best prices in india on amazon in read what the dog saw and other adventures book reviews author details and more at amazon in free delivery on qualified orders

what the dog saw and other adventures kađıt kapak - Aug 03 2022

web what the dog saw and other adventures gladwell malcolm amazon com tr kitap

what the dog saw and other adventures google play - Nov 06 2022

web what the dog saw and other adventures ebook written by malcolm gladwell read this book using google play books app on your pc android ios devices download for offline reading highlight bookmark or take notes while you read what the dog saw and other adventures

what the dog saw and other adventures kindle edition - Mar 10 2023

web oct 6 2009 what the dog saw and other adventures kindle edition by gladwell malcolm download it once and read it on your kindle device pc phones or tablets use features like bookmarks note taking and highlighting while reading what the dog saw and other adventures

what the dog saw and other adventures amazon ae - Apr 30 2022

web buy what the dog saw and other adventures by gladwell malcolm online on amazon ae at best prices fast and free shipping free returns cash on delivery available on eligible purchase

book review what the dog saw and other adventures by - Apr 11 2023

web nov 7 2009 what the dog saw and other adventures by malcolm gladwell 410 pp little brown company 27 99

what the dog saw and other adventures financial times - Sep 04 2022

web oct 19 2009 what the dog saw is a 22 page piece on cesar millan a man insomniac viewers of cable tv know as the dog whisperer who tackles problem dogs such as bandit a terrorist chihuahua after consulting

what the dog saw and other adventures amazon co uk - Dec 07 2022

web may 6 2010 in these breathtaking intellectual adventure stories covering everything from criminology to ketchup job interviews to dog training malcolm gladwell looks under the surface of everyday life to show how the most ordinary subjects can illuminate the most extraordinary things about us and our world

what the dog saw summary gradesaver - Feb 26 2022

web what the dog saw informs readers how dogs are highly sensitive to human body language it goes further and highlights the importance of training dog owners as a means to also train the dog what the dog saw and other adventures offers a chest full of treasures that brightly shines on their own while different the stories so follow intentional

what the dog saw and other adventures audio gladwell - Jan 08 2023

web what the dog saw and other adventures audio gladwell malcolm amazon com tr kitap

what the dog saw and other adventures amazon ca - Oct 05 2022

web dec 14 2010 now in what the dog saw he brings together for the first time the best of his writing from the new yorker over the same period here is the bittersweet tale of the inventor of the birth control pill and the dazzling inventions of the pasta sauce pioneer howard moscowitz

what the dog saw and other adventures kapak değişebilir - Jun 13 2023

web in these breathtaking intellectual adventure stories covering everything from criminology to ketchup job interviews to dog training malcolm gladwell looks under the surface of everyday life to show how the most ordinary subjects can illuminate the most extraordinary things about us and our world

what the dog saw and other adventures google books - May 12 2023

web gladwell explores the minor geniuses the underdogs and the overlooked and reveals how everyone and everything contains an intriguing story what the dog saw is gladwell at his very best

summary of what the dog saw and other adventures by malcolm gladwell - Dec 27 2021

web summary of what the dog saw and other adventures by malcolm gladwell surprising lessons from little known geniuses what can an iconic advertising campaign

what the dog saw and other adventures what the dog saw - Mar 30 2022

web jan 1 2009 6 what the dog saw unlike almost all animals a dog is a student of human movement they look to you and other dog owners for help rather than judging other dogs they judge the way a human body moves forward or backward face

relaxed or not leash

what the dog saw and other adventures paperback - Jan 28 2022

web what the dog saw unlike almost all animals a dog is a student of human movement they look to you and other dog owners for help rather than judging other dogs they judge the way a human body moves forward or backward face relaxed or not leash

what the dog saw and other adventures ebook amazon in - Jun 01 2022

web what the dog saw and other adventures re issue edition kindle edition in what the dog saw malcolm gladwell covers everything from criminology to spaghetti sauce to show how the most ordinary subjects can illuminate the

what the dog saw and other adventures amazon com - Jul 14 2023

web dec 14 2010 what the dog saw unlike almost all animals a dog is a student of human movement they look to you and other dog owners for help rather than judging other dogs they judge the way a human body moves forward or backward face relaxed or not leash

what the dog saw and other adventures gladwell malcolm - Feb 09 2023

web what the dog saw and other adventures gladwell malcolm amazon com tr ana içeriğe atla com tr merhaba giriş yap hesap ve listeler hesap değil misiniz Çıkış yap İadeler ve siparişler alışveri ş sepeti kitaplar git ara merhaba

what the dog saw wikipedia - Aug 15 2023

web what the dog saw and other adventures is the fourth book released by author malcolm gladwell on october 20 2009 the book is a compilation of the journalist s articles published in the new yorker