

ARTIFICIAL INTELLIGENCE



DATABASETOWN.COM



WHAT IS AI?

AI refers to the ability of machines to mimic human intelligence and perform tasks that typically require human cognition, such as visual perception, speech recognition, decision-making, and problem-solving.



WHY DO WE NEED AI?

There are several reasons why we need AI. Firstly, AI systems can process and analyze large amounts of data much faster and more accurately than humans. Secondly, AI can be used to personalize products, services etc.



TYPES OF AI

- Reactive Machines
- Limited Memory
- Theory of Mind
- Self-aware AI



MACHINE LEARNING

Machine learning is a subfield of artificial intelligence that allows computer systems to learn and improve from experience, without being explicitly programmed.

Artificial Intelligence Tutorials For Beginners

Zhe Xu



Artificial Intelligence Tutorials For Beginners :

Decoding **Artificial Intelligence Tutorials For Beginners** : Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Artificial Intelligence Tutorials For Beginners** ," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

https://socketapi.adit.com/About/uploaded-files/HomePages/Chapter_32_Section_1_Guided_Reading_Answer_Key.pdf

Table of Contents Artificial Intelligence Tutorials For Beginners

1. Understanding the eBook Artificial Intelligence Tutorials For Beginners
 - The Rise of Digital Reading Artificial Intelligence Tutorials For Beginners
 - Advantages of eBooks Over Traditional Books
2. Identifying Artificial Intelligence Tutorials For Beginners
 - 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 Artificial Intelligence Tutorials For Beginners
 - User-Friendly Interface
4. Exploring eBook Recommendations from Artificial Intelligence Tutorials For Beginners
 - Personalized Recommendations
 - Artificial Intelligence Tutorials For Beginners User Reviews and Ratings
 - Artificial Intelligence Tutorials For Beginners and Bestseller Lists

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

Artificial Intelligence Tutorials For Beginners Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In today's fast-paced digital age, obtaining valuable knowledge has become easier than ever. Thanks to the internet, a vast array of books and manuals are now available for free download in PDF format. Whether you are a student, professional, or simply an avid reader, this treasure trove of downloadable resources offers a wealth of information, conveniently accessible anytime, anywhere. The advent of online libraries and platforms dedicated to sharing knowledge has revolutionized the way we consume information. No longer confined to physical libraries or bookstores, readers can now access an extensive collection of digital books and manuals with just a few clicks. These resources, available in PDF, Microsoft Word, and PowerPoint formats, cater to a wide range of interests, including literature, technology, science, history, and much more. One notable platform where you can explore and download free Artificial Intelligence Tutorials For Beginners PDF books and manuals is the internet's largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-to-use website interface and customizable PDF generator, this platform offers a user-friendly experience, allowing individuals to effortlessly navigate and access the information they seek. The availability of free PDF books and manuals on this platform demonstrates its commitment to democratizing education and empowering individuals with the tools needed to succeed in their chosen fields. It allows anyone, regardless of their background or financial limitations, to expand their horizons and gain insights from experts in various disciplines. One of the most significant advantages of downloading PDF books and manuals lies in their portability. Unlike physical copies, digital books can be stored and carried on a single device, such as a tablet or smartphone, saving valuable space and weight. This convenience makes it possible for readers to have their entire library at their fingertips, whether they are commuting, traveling, or simply enjoying a lazy afternoon at home. Additionally, digital files are easily searchable, enabling readers to locate specific information within seconds. With a few keystrokes, users can search for keywords, topics, or phrases, making research and finding relevant information a breeze. This efficiency saves time and effort, streamlining the learning process and allowing individuals to focus on extracting the information they need. Furthermore, the availability of free PDF books and manuals fosters a culture of continuous learning. By removing financial barriers, more people can access educational resources and pursue lifelong

learning, contributing to personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Artificial Intelligence Tutorials For Beginners PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Artificial Intelligence Tutorials For Beginners free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

FAQs About Artificial Intelligence Tutorials For Beginners Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Artificial Intelligence Tutorials For Beginners is one of the best book in our library for free trial. We provide copy of Artificial Intelligence Tutorials For Beginners in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Artificial Intelligence Tutorials For Beginners . Where to download Artificial Intelligence Tutorials For Beginners online for free? Are you looking for Artificial Intelligence Tutorials For Beginners PDF? This is definitely going to save you time and cash in something you should think about.

Find Artificial Intelligence Tutorials For Beginners :

chapter 32 section 1 guided reading answer key

[chapter 26 section 3 guided reading the cold war comes home answers](#)

~~chapter 21 capital budgeting and cost analysis test bank~~

~~chapter 9 storm drains~~

chemical formulas and names word search answers

chelsio iwarp installation and setup guide

[chemical oceanography and the marine carbon cycle](#)

[chapter 6 test form g](#)

checkpoint ccsa ccse practice exam questions

chapter 8 section 1 guided reading science urban life answers

chapter 27 study for inquiry into life 14th edition

[chapter 8 solutions cornett](#)

~~chapter 5 integers and the coordinate plane parent~~

[charles e ebeling](#)

~~chemical process safety fundamentals with applications fundamentals with applications prentice hall international series in the physical and chemical engineering sciences~~

Artificial Intelligence Tutorials For Beginners :

[bsbhrm506 assessment 3 v3 0 docx course hero](#) - Dec 07 2022

web assessment task 3 induction project you must manage the induction process and implement improvements to the induction procedure assessment task 4 written

[bsbhrm506 assessment 1 pdf recruitment scribd](#) - Mar 10 2023

web there are two outcomes of assessments s satisfactory and ns not satisfactory requires more training and experience once the student has satisfactorily completed

[bsbhrm506 manage recruitment selection advise](#) - Feb 26 2022

web bsbhrm506 assignment answers the code for managing recruitment selection and induction processes is a single course unit this course unit deals with the essential

bsbhrm 506 assessment task 2 assessment task 2 prepare - Jun 13 2023

web assessment task 2 prepare human resources requirements briefing reports human resources briefing report grow management consultants 1 introduction human

bsbhrm506 assessment answers from our experts - Jan 28 2022

web bsbhrm506 assessment answers get bsbhrm506 assessment answers service to meet the high expectations of your professors hire our experts for top quality academic

bsbhrm506 assessment answers manage recruitment - Sep 04 2022

web doc preview pages identified q as solutions available lloyds international college bsbhrm bsbhrm 506 privatedinosaur481 11 22 2021 view full document students

bsbhrm506 assessment answers total assignment help - Dec 27 2021

web oct 30 2019 acquire hd quality research work with 100 plagiarism free content assessment task 1 develop recruitment selection and induction documents project

how to write your bsbhrm506 assignment answers - Jan 08 2023

web feb 15 2019 bsbhrm506 assessment 1 answers bsbhrm506 assessment 2 answers bsbhrm506 assessment 3 answers since the 3 assignments we just

about this resource amazon web services - Jun 01 2022

web bsb50215 diploma of business bsbhrm506 manage recruitment selection and induction processes performance objectives to provide an opportunity to determine future

bsbhrm506 assessment task 2 docx course hero - Mar 30 2022

web nov 2 2018 bsbhrm506 manage recruitment selection advice candidates management assessment answer assessment task the assessment tasks for

bsbhrm506 sample answer docx do not copy exactly as i - Apr 11 2023

web apr 11 2018 answers should be provided on a separate sheet of paper with the assessment task number clearly indicated answers must be word processed what do

bsbhrm506a assessment 2 pdf recruitment - Oct 05 2022

web jan 9 2023 bsbhrm506 assessment answers will help you understand some of the managerial things in order to know the selection and recruitment process of the business

assessment task 1 bsbhrm506 docx course hero - Aug 03 2022

web oct 29 2019 assessment task 1 develop recruitment selection and induction documents project about your assessments bsbhrm506 manage recruitment

training gov au bsbhrm506a manage recruitment - Nov 06 2022

web a range of assessment methods should be used to assess practical skills and knowledge the following examples are appropriate for this unit assessment of written reports on [tag bsbhrm506 assessment task 2 answers get 24 7 - Nov 25 2021](#)

[bsbhrm506 solved assessment 1 pdf recruitment - Aug 15 2023](#)

web the assessment tasks for bsbhrm506 manage recruitment selection and induction processes are included in this student assessment tasks booklet and outlined in the

bsbhrm506 assessment 2 pdf recruitment - Feb 09 2023

web this part of the assessment requires you to develop a short briefing report for the principal consultant that addresses purpose of the report an analysis of strategic objectives and

bsbhrm506 assessment 2 docx the management - Apr 30 2022

web solutions available [australian pacific college human reso 506](#)

bsbhrm506 assessment 3 pdf recruitment employment - May 12 2023

web assessment appeals process bsbhrm506 student assessment pack v2 0 april 2020 page 2 of 11 if you feel that you have been unfairly treated during your assessment and

bsbhrm506 manage recruitment selection and induction - Jul 02 2022

web this final assessment is for the unit bsbhrm506 manage recruitment selection and induction processes release 1 an assessor will review the work you complete and

[bsbhrm506 student assessment pdf recruitment human - Jul 14 2023](#)

web the assessment tasks for bsbhrm506 manage recruitment selection and induction processes are included in this student assessment tasks booklet and outlined in the

[10 little rubber ducks by eric carle youtube - Jun 02 2022](#)

web 10 little rubber ducks fall off a boat in the ocean count the ducks and see where they float and who they meet [goofandgigglegglestory timewit5914 counting st](#)

[10 rubber duckies hardcover august 1 2005 amazon com - Feb 10 2023](#)

web aug 1 2005 10 rubber duckies sitting on the tub they all move over and one falls in glub glub glub this delightful twist on the popular song follows nine sunny yellow duckies and a funky bright blue one as they dive fall plop and drop into the water

[ten rubber duckies amazon com - Aug 16 2023](#)

web jan 8 2008 ten rubber duckies is from the same folks who created ten little ladybugs and good night sweet butterflies

two books that started a phenomenon selling more than 15 million copies each children and parents will love cheering for their favorite rubber ducky in this fun filled race

[10 little rubber ducks by eric carle hardcover barnes noble](#) - Aug 04 2022

web jun 7 2005 this classic picture book from the new york times bestselling author of the very hungry caterpillar and the grouchy ladybug stars 10 little rubber ducks and their globe trotting adventures in eric carle's poignant and funny story illustrated with strikingly designed collages readers are taken on an exciting voyage of discovery

10 little rubber ducks by eric carle goodreads - Dec 08 2022

web jan 1 2005 ten little rubber ducks by eric carle the book is cute it teaches counting and directions a company produces ducks they get put on a ship to be shipped worldwide in each box sits ten rubber ducks one box falls in after a bad storm and the ten ducks slowly drift apart in the water

[10 little rubber ducks w words efx music youtube](#) - May 13 2023

web may 27 2017 10 little rubber ducks w words efx music support the author by purchasing the book here amzn to 2ck7yzt eric carle's fun tale about 10 rubber ducks adrift in the ocean

5 activities inspired by the 10 little rubber ducks book - Dec 28 2021

web oct 24 2019 mia brown 5 activities inspired by the 10 little rubber ducks book the book 10 little rubber ducks by eric carle is beloved by children all around the world and at sunshine and rainbows learning center in joliet illinois they did a number of fun activities with their own little rubber ducks inspired by the book book activities and

10 little rubber ducks carle eric free download borrow and - Sep 05 2022

web language english laura ingalls wilder award 2003 when a storm strikes a cargo ship ten rubber ducks are tossed overboard and swept off in ten different directions based on a factual incident

10 rubber duckies worldcat org - Jul 03 2022

web summary ten little rubber ducks sit on the edge of a tub and they fall into the tub one by one print book english 2005 edition view all formats and editions

10 little rubber ducks by eric carle kids book read aloud - Jul 15 2023

web feb 7 2022 8 share 16k views 1 year ago new york ducks overboard shouts the captain as a giant wave washes a box of 10 little rubber ducks off his cargo ship and into the sea the ducks are

10 little rubber ducks board book an easter and springtime - Oct 06 2022

web jan 26 2010 shouts the captain as a giant wave washes a box of 10 little rubber ducks off his cargo ship and into the sea the ducks are swept away in various directions one drifts west where a friendly dolphin jumps over it a whale sings to another but as the sun sets the 10th little rubber duck is left all alone bobbing helplessly on the big wide sea

10 rubber duckies by william b winburn goodreads - Apr 12 2023

web 10 rubber duckies by william b winburn photographs 3 33 rating details 24 ratings 5 reviews a witty and whimsical take on a favorite rhyme plus amusing photographs make this oversize board book irresistible fun and a great way for youngsters to practice counting too 10 rubber duckies sitting on the tub

10 rubber duckies winburn william b free download borrow - Jun 14 2023

web ten little rubber ducks sit on the edge of a tub and they fall into the tub one by one die cut cover

results for 10 rubber ducks tpt - Jan 29 2022

web rick s creations your little ones will have fun with this sequencing activity after reading 10 little rubber ducks by eric carle a perfect activity for an individual or for a whole group give each student a blank sheet and another sheet with picture cards

10 little rubber ducks by eric carle memoria press - Feb 27 2022

web 10 little rubber ducks by eric carle tells the story of ten rubber ducks who are washed overboard in a storm the ducks were made in a factory and loaded on a ship to go all over the world but when the wind and waves wash them into the ocean their lives become a little more exciting

ten rubber duckies by dawn bentley goodreads - Mar 11 2023

web ten rubber duckies dawn bentley heather cahoon illustrator melanie gerth concept by 4 00 40 ratings 5 reviews ten rubber duckies is from the same folks who created ten little ladybugs and good night sweet butterflies two books that started a phenomenon selling more than 1 5 million copies each

ten rubber duckies dawn bentley amazon ca books - Nov 07 2022

web children and parents will love cheering for their favorite rubber ducky in this fun filled race with each turn of the page one of the ten rubber duckies splashes closer to the finish line this playful story also teaches counting and colors and the winner squeaks

10 rubber duckies google books - Jan 09 2023

web 10 rubber duckies sitting on the tub they all move over and one falls in glub glub glub this delightful twist on the popular song follows nine sunny yellow duckies and a funky bright blue one as they dive fall plop and drop into the water

ten rubber duckies by dawn bentley open library - May 01 2022

web jan 8 2008 hardcover in english 0375840435 9780375840432 aaaa not in library libraries near you worldcat 1 ten rubber duckies a wacky quacky counting adventure 2008 robin corey books in english 1st ed

10 rubber duckies hardcover 1 august 2005 amazon singapore - Mar 31 2022

web aug 1 2005 10 rubber duckies hardcover 1 august 2005 by harriet ziefert contributor william b winburn photographer 4

7 4 7 out of 5 stars 3 ratings

algebra 1 review for spring semester exam denton isd - Jul 23 2023

simplify the following problems simplify 21 32a2bc3 20abc 22 6c3d 12cd3 15cd 3cd factor completely algebra 1 semester review part 2 29 factor 5a2 20b2

results for algebra 1 final exam with review tpt - May 09 2022

algebra 1 end of year eoc review packet test prep with innovative questions this end of course algebra 1 practice test is perfect to help prepare your students for the end of year algebra 1 tests and final exams there are 37 carefully selected problems for algebra 1 including 23 multiple choice and 14 short answer

algebra 1 final exam review spring semester material - Jun 22 2023

1 algebra 1 final review packet what you must memorize for final b 2 4ac 1 quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ standard form $ax^2 + bx + c = 0$ 3 perfect squares from 0 to 169 0 1 4 16 4 discriminant $b^2 - 4ac$ 5 complete the square $x^2 + 5x$ match each of the following polynomials with its special term name tags

algebra 1 final exam review google slides and pdf printable tpt - Nov 15 2022

algebra 1 midterm and final with reviews print and digital for use with google this bundle includes a first semester algebra 1 exam and exam review as well as an algebra 1 final and final exam review reviews include pdf and digital options in google slides

algebra 1 semester 1 exam review flashcards quizlet - Oct 14 2022

means greater than or equal to means less than or equal to means the number is squared some questions require you to graph equations no graphs will be given currently a work in progress i will update answers as the break continues work is shown first then the answer is

algebra i high school practice test questions final exam - Mar 07 2022

test and improve your knowledge of algebra i high school with fun multiple choice exams you can take online with study com

algebra 1 semester exam review 639 plays quizizz - Apr 08 2022

report an issue algebra 1 semester exam review quiz for 8th grade students find other quizzes for mathematics and more on quizizz for free

algebra 1 math khan academy - Dec 16 2022

the algebra 1 course often taught in the 9th grade covers linear equations inequalities functions and graphs systems of equations and inequalities extension of the concept of a function exponential models and quadratic equations functions and graphs

algebra 1 semester exam 1 flashcards quizlet - Sep 13 2022

92 terms variables is a letter that is used to re values the numbers of a variable variable expression is a collection of numbers
va evaluating the expression replacing each variable in an unit analysis writing the units of each vari

algebra i semester 1 exam flashcards quizlet - Mar 19 2023

substitute the value of the variable into one of the original equations and solve for the other variable 4 write the answers
steps 2 and 3 as an ordered pair $x y$ and check includes vocabulary formulas and several problems from chapters 1 6 learn
with flashcards games and more for free

final exam review mrs gapinski s homepage google sites - Apr 20 2023

1st semester final exam mock quiz doc 64k robin gapinski algebra 1 2nd semester fe review quiz pdf 62k robin gapinski robin
gapinski jan 16 2016 12 50 pm v 1 d' C semester 1 review packet answers worked out 2016 pdf 1853k robin gapinski jan
springboard algebra 1 1st edition solutions and answers quizlet - May 21 2023

our resource for springboard algebra 1 includes answers to chapter exercises as well as detailed information to walk you
through the process step by step with expert solutions for thousands of practice problems you can take the guesswork out of
studying and move forward with confidence

semester exam review algebra 1 common core - Sep 25 2023

semester 1 exam review the semester exam is going to have multiple choice questions covering skills and free response
questions covering applications from units 1 6 if you complete and understand this review packet then you will do very well
on the exam

algebra 1 semester 1 final exam flashcards quizlet - Jan 17 2023

see an expert written answer we have an expert written solution to this problem which part of the inequality sign determines
when you have a closed circle on a graph

algebra 1 semester 1 final exam study guide answer key pdf - Feb 18 2023

algebra 1 semester 1 final exam study guide answer key free download as pdf file pdf or read online for free l anse creuse
high school north algebra 1 instructor john pizzo

results for algebra 1 spring semester final exam review - Jul 11 2022

algebra 1 final exam review spring 2012 with answer key editable at the end of each semester i like to give my students a
thorough review for the final exam this was the final exam review packet for my second semester algebra 1 class during the
spring 2012 semester

algebra 1 semester exam proprofs quiz - Feb 06 2022

mar 22 2023 a m 2 3 b 2 explanation the given equation is in the form of $y = mx + b$ where m is the slope and b is the y intercept
by rearranging the equation we can see that the coefficient of x is the slope and the constant term is the y intercept in this

case the coefficient of x is 2 3 so the slope is 2 3

[algebra 1 answers and solutions mathleaks](#) - Aug 12 2022

answers and solutions for 8th and 9th grade get algebra 1 theory for high school like a math tutor better than a math calculator or problem solver

algebra 1 final exam review spring semester material by - Aug 24 2023

algebra 1 final review packet 2 what you must memorize for final 1 quadratic formula $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ standard form $ax^2 + bx + c = 0$ 3 perfect squares from 0 to 169 0 1 4 16 p 4 discriminant $b^2 - 4ac$ 5 complete the square $x^2 + 5x + \frac{25}{4} = \left(x + \frac{5}{2}\right)^2$ 6 direct variation $y = kx$ 7

[algebra 1 semester final exam answers 2022 ams istanbul edu](#) - Jun 10 2022

math 307 syllabus spring 2017 prof hurley algebra 1 semester final exam algebra 1 semester final exam answers downloaded from ams istanbul edu tr by guest kyleigh lexi college of education algebra 1 semester final exam the last class is monday may 1 the final exam is friday may 5 from 12 to 3 in in the usual classroom prerequisites