

Ohio's Science Learning Standards Checklist
Grade 5
Pacing Guide with "I Can" Statements

Ohio Science Standards Pacing Guide

Jenny Grant Rankin

Ohio Science Standards Pacing Guide:

Resources in Education, 1994 **First Aid for Teacher Burnout** Jenny Grant Rankin, 2016-09-13 Offering clear strategies rooted in research and expert recommendations First Aid for Teacher Burnout empowers teachers to prevent and recover from burnout while finding success at work Each chapter explores a different common cause of teacher burnout and provides takeaway strategies and realistic tips Chapter coverage includes fighting low morale diminishing stress streamlining grading reducing workload leveraging collaboration avoiding monotony using technology to your advantage managing classroom behavior advocating for support from your administration securing the help of parents and community and more Full of reflection exercises confessions from real teachers and veteran teacher tips this accessible book provides easy to implement steps for alleviating burnout problems so you can enjoy peace and success in your teaching **What Really**

Works in Secondary Education Wendy W. Murawski, Kathy Lynn Scott, 2015-02-24 Research Based Practical Strategies for Every Teacher What Works in Secondary Education compiles the advice of experts who not only know the theory behind certain educational practices but also have experience in the secondary classroom In each user friendly chapter key information on a topic vital to secondary educators is boiled down and presented in a straightforward way Whether you're a new educator or just seeking to build new skills you'll benefit from insight into a handful of innovative topics in instruction including using technology UDL co teaching and assessment Novel approaches for classroom management and strategies to engage students Useful reproducibles and resources for every topic area **Mathematics Benchmarking Report**, 2001

The Technology Teacher, 2001 **K-12 Classroom Teaching** Andrea M. Guillaume, 2008 K 12 Classroom Teaching A Primer for New Professionals is a teaching guide written in clear reader friendly language In the Primer readers explore key aspects of classroom teaching including the context of teaching today strategies for learning about students planning and assessment instruction and instructional strategies classroom management finding a personal educational stance and growing professionally Each chapter is designed to cover the material thoroughly and concisely so that readers can make the best use of their time This book encourages readers to reflect on their past experiences to question their assumptions to consider multiple sources of information and to commit to enacting well defined notions of good practice that address learners diverse needs while honoring the dignity of the human experience **Keeping Pace with the Advancing Curriculum**

National Education Association of the United States. Research Division, 1925 **The Science Teacher**, 2008 SCC Library has 1964 cur **The Insider's Guide to the Colleges**, 1989 Yale Daily News, 1989 The only guide written by students for students The Insider's Guide includes over 300 colleges at least one from each of the United States plus schools in Canada

Holt Chemistry Ralph Thomas Myers, 2004 **New Serial Titles**, 1993 A union list of serials commencing publication after Dec 31 1949 **The Breeder's Gazette**, 1912 **Journal of Education**, 1895 **Readers' Guide to Periodical Literature**, 1963 **An Introductory Guide to EC Competition Law and Practice** Valentine Korah, 1994 **Educational**

Media and Technology Yearbook ,1996 **ERIC Educational Documents Index** Educational Resources Information Center (U.S.),1966 A subject author institution index which provides titles and accession numbers to the document and report literature that was announced in the monthly issues of Resources in education earlier called Research in education

Medical Device Materials II Michael Nevin Helmus,Dana Medlin,2005 **Resources in Education** ,1996

Bibliography of Scientific and Industrial Reports ,1969-10

Eventually, you will unconditionally discover a additional experience and deed by spending more cash. yet when? attain you understand that you require to get those every needs bearing in mind having significantly cash? Why dont you try to acquire something basic in the beginning? Thats something that will guide you to understand even more roughly the globe, experience, some places, past history, amusement, and a lot more?

It is your unconditionally own get older to comport yourself reviewing habit. among guides you could enjoy now is **Ohio Science Standards Pacing Guide** below.

<https://auld.rmj.com/results/virtual-library/Documents/the%20others%20europe%2019922003%20ser.pdf>

Table of Contents Ohio Science Standards Pacing Guide

1. Understanding the eBook Ohio Science Standards Pacing Guide
 - The Rise of Digital Reading Ohio Science Standards Pacing Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Ohio Science Standards Pacing Guide
 - 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 Ohio Science Standards Pacing Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ohio Science Standards Pacing Guide
 - Personalized Recommendations
 - Ohio Science Standards Pacing Guide User Reviews and Ratings
 - Ohio Science Standards Pacing Guide and Bestseller Lists
5. Accessing Ohio Science Standards Pacing Guide Free and Paid eBooks

- Ohio Science Standards Pacing Guide Public Domain eBooks
- Ohio Science Standards Pacing Guide eBook Subscription Services
- Ohio Science Standards Pacing Guide Budget-Friendly Options

6. Navigating Ohio Science Standards Pacing Guide eBook Formats

- ePUB, PDF, MOBI, and More
- Ohio Science Standards Pacing Guide Compatibility with Devices
- Ohio Science Standards Pacing Guide Enhanced eBook Features

7. Enhancing Your Reading Experience

- Adjustable Fonts and Text Sizes of Ohio Science Standards Pacing Guide
- Highlighting and Note-Taking Ohio Science Standards Pacing Guide
- Interactive Elements Ohio Science Standards Pacing Guide

8. Staying Engaged with Ohio Science Standards Pacing Guide

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Ohio Science Standards Pacing Guide

9. Balancing eBooks and Physical Books Ohio Science Standards Pacing Guide

- Benefits of a Digital Library
- Creating a Diverse Reading Collection Ohio Science Standards Pacing Guide

10. Overcoming Reading Challenges

- Dealing with Digital Eye Strain
- Minimizing Distractions
- Managing Screen Time

11. Cultivating a Reading Routine Ohio Science Standards Pacing Guide

- Setting Reading Goals Ohio Science Standards Pacing Guide
- Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ohio Science Standards Pacing Guide

- Fact-Checking eBook Content of Ohio Science Standards Pacing Guide
- 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

Ohio Science Standards Pacing Guide Introduction

In the digital age, access to information has become easier than ever before. The ability to download Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide has opened up a world of possibilities. Downloading Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide. 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 Ohio Science Standards Pacing Guide. 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 Ohio Science Standards Pacing Guide, 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 Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide Books

1. Where can I buy Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide 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 Ohio Science Standards Pacing Guide books for free? Public Domain Books: Many classic books are available for free as they're in the public domain. Free E-books: Some websites offer free e-books legally, like Project Gutenberg or Open Library.

Find Ohio Science Standards Pacing Guide :

~~the others europe 19922003 ser~~

the peaceable kingdom in hartsdale a celebration of pets and their people

the parrots of luquillo natural history and conservation of the puerto rican parrot

the owl and mouse and the boy in my room

the people of providence a housing estate and some of its inhabitants

the patient stone

the pattern of english building

the penultimate truth

~~the parma legacy a novel~~

the pediatric drug handbook

the paisley directory and general advertiser for 18991900

~~the pathway to a zero injury safety culture~~

the passions emotions and the meaning of life

the parasite menace

the passion and exaltation of jesus

Ohio Science Standards Pacing Guide :

first bhms materia medica question papers similima yumpu - Dec 06 2022

web 2 first bhms anatomy question papers similima 2019 12 20 selection first offers information on hormone action at the cell membrane and a new approach to the structure

first bhms anatomy question papers similima 2022 - Nov 05 2022

web feb 1 2020 anatomy i q p code 581230 time three hours maximum 100 marks answer all questions i essay questions 2 x 15 30 1 explain in detail about the

first bhms anatomy question papers similima full pdf - Mar 29 2022

web jan 18 2023 read free first bhms anatomy question papers similima read pdf free anatomy oswaal cbse sample question papers class 11 physical education for

download bhms 2020 feb 1st year anatomy i question papers - Oct 04 2022

web nov 16 2011 first bhms anatomy question papers november 16 2011 admin i bhms 3 bachelor of homeopathic medicine surgery anatomy question papers from

first bhms anatomy question papers similima ftp popcake - May 31 2022

web first bhms anatomy question papers similima 1 1 downloaded from coe fsu edu on august 10 2023 by guest doc first bhms anatomy question papers similima

first bhms anatomy question papers similima - Feb 08 2023

web 4 first bhms anatomy question papers similima 2019 08 10 2 this book covers all cbse aipmt and nta neet papers 3 chapterwise and unitwise approach to analysis

baba farid university b h m s 1st prof physiology a papers - Nov 24 2021

web first bhms anatomy question papers 1st bhms anatomy important exam questions human anatomy first bhms materia medica question papers

first bhms anatomy question papers homeopathy resource - Aug 02 2022

web similima com page 1 first bhms anatomy question papers calicut university 2009 2010 first year b h m s degree examination may 2008 paper

first bhms anatomy question papers similima download only - Jan 07 2023

web jun 20 2013 first bhms materia medica question papers similima en english deutsch français español português italiano român nederlands latina dansk svenska

first bhms anatomy question papers homeopathy resource - Jul 01 2022

web first bhms anatomy question papers similima anatomy at a glance endemic cretinism grant s method of anatomy biochemistry materia medica pura exam

first bhms anatomy question papers similima - Dec 26 2021

web download baba farid university b h m s 1st prof physiology a question paper 2 download baba farid university b h m s 1st prof physiology a question paper 3

first bhms anatomy question papers similima - Jan 27 2022

web papers similima first bhms anatomy question papers similima 717288249e92f4da21cd8f12eeb68c25 review of physiology exam oriented

bhms last 10 years 2011 2021 previous question - Jul 13 2023

web this post contains syllabus of 1st bhms human anatomy syllabus along with their most important and frequently asked exam questions from different indian universities read

read free first bhms anatomy question papers similima read - Feb 25 2022

web jan 22 2023 bookmark file pdf first bhms anatomy question papers similimaanatomy and builds understanding of structures their relations and functions

first bhms anatomy question papers similima old talentsprint - Oct 24 2021

web first bhms anatomy question papers similima first bhms anatomy question papers homeopathy resource first year anatomy question paper mbbs 2008 2020

first bhms anatomy question papers homeopathy resource - Sep 03 2022

web similima com page 6 first year b h m s degree examination december 1999 anatomy paper i 1 describe arch of aorta and its branches 2 describe the

first bhms anatomy question papers similima coe fsu edu - Apr 29 2022

web enter the realm of first bhms anatomy question papers similima a mesmerizing literary masterpiece penned by a distinguished author guiding readers on a profound

first bhms anatomy question papers similima download only - May 11 2023

web kindly say the first bhms anatomy question papers similima is universally compatible with any devices to read pocket manual of homoeopathic materia medica william

first bhms anatomy question papers similima - Apr 10 2023

web pages of first bhms anatomy question papers similima a mesmerizing literary creation penned with a celebrated wordsmith readers set about an enlightening

1st bhms anatomy syllabus anatomy medicosage - Jun 12 2023

web first bhms anatomy question papers similima first bhms anatomy question papers homeobook anatomy paper i question bank important questions first year

first bhms anatomy question papers similima copy - Sep 22 2021

first bhms anatomy question papers similima pdf - Mar 09 2023

web read book first bhms anatomy question papers similima the chronic miasm with repertory this respected textbook

delivers user friendly features and expert

first b h m s the tamilnadu dr m g r medical university - Aug 14 2023

web b h m s first year new regulations 2004 2005 pattern 5 paper subject year paper i homoeopathic pharmacy 2006 2020 paper ii organon and

schau mal was ich kann pettersson pettersson und findus - Oct 04 2022

web sep 2 2023 schau mal was ich kann pettersson von sven nordqvist erschienen im oetinger verlag alle rechte vorbehalten findus kann ganz viele tolle dinge aber

pettersson und findus schau mal was ich kann pettersson - Sep 22 2021

schau mal was ich kann pettersson orell füssli - Mar 29 2022

web schau mal was ich kann pettersson finden sie alle bücher von sven nordqvist bei der büchersuchmaschine eurobuch com können sie antiquarische und neubücher

pettersson und findus schau mal was ich kann pettersson - Feb 08 2023

web schau mal was ich kann pettersson pettersson und findus audible hörbuch ungekürzte ausgabe sven nordqvist autor laura maire erzähler 3 mehr 123

schau mal was ich kann pettersson ex libris - Dec 06 2022

web schau mal was ich kann pettersson nordqvist sven amazon com tr Çerez tercihlerinizi seçin alışveriş deneyiminizi geliştirmek hizmetlerimizi sunmak

schau mal was ich kann pettersson thalia at - Apr 29 2022

web jul 22 2019 kann der alte pettersson eigentlich irgendwas Über den hof bis zum haus hüpfen also findus kann das supergut kann pettersson findus beim wettrennen

pettersson und findus schau mal was ich kann pettersson - Jul 01 2022

web schau mal was ich kann pettersson hardcover german edition 4 3 111 ratings part of pettersson und findus 22 books see all formats and editions audiobook 0 00 free

schau mal was ich kann pettersson sven nordqvist eurobuch - Nov 24 2021

schau mal was ich kann pettersson pettersson und findus - Jul 13 2023

web jul 22 2019 blick ins buch schau mal was ich kann pettersson sven nordqvist text von illustriert von maike dörries Übersetzt von ein ganz normaler tag bei

schau mal was ich kann pettersson kinderbuchlesen de - Aug 14 2023

web das große mal und rätselbuch schau mal was ich kann pettersson produktart liederbuch sammelband sammelband rechenstarter beschäftigungsbuch

rezension schau mal was ich kann pettersson - Nov 05 2022

web jul 22 2019 pettersson und findus schau mal was von nordqvist sven jetzt online bestellen portofrei schnell zuverlässig kein mindestbestellwert individuelle rechnung 20

schau mal was ich kann pettersson amazon ca - Feb 25 2022

web sven nordqvist pettersson und findus song 2019 listen to kapitel 1 kapitel 2 1 pettersson und findus schau mal was ich kann pettersson on spotify

schau mal was ich kann pettersson thalia - Mar 09 2023

web schau mal was ich kann pettersson oetinger 2019 isbn 978 3 7891 1295 9 lange haben viele kinder und auch erwachsene fans auf das neue bilderbuch von sven

schau mal was ich kann pettersson verlagsgruppe oetinger - Jun 12 2023

web pettersson und findus schau mal was ich kann pettersson liebenswerte hörspiel adaption des bilderbuches über talente für kinder ab 4 jahren nordqvist sven maire

pettersson und findus schau mal was ich kann pettersson - Apr 10 2023

web beschreibung kann der alte pettersson eigentlich irgendwas Über den hof bis zum haus hüpfen also findus kann das supergut

pettersson und findus schau mal was ich kann pettersson - Sep 03 2022

web pettersson und findus schau mal was ich kann pettersson sven nordqvist buch gebundene ausgabe

schau mal was ich kann pettersson bücher de - Jan 07 2023

web Über 135 000 hörbücher auf cd pettersson und findus schau mal was ich kann pettersson von sven nordqvist theresia singer laura maire jens wawrczeck fred

pettersson und findus schau mal was ich kann pettersson - Dec 26 2021

schau mal was ich kann pettersson vorlesen macht freude - May 31 2022

web aug 18 2019 schau mal was ich kann pettersson von sven nordqvist erschienen im oetinger verlag ist ein 28 seitiges bilderbuch für kinder ab 3 jahren das für 13 eur

kapitel 1 kapitel 2 1 pettersson und findus schau mal was - Oct 24 2021

pettersson und findus schau mal was ich kann - May 11 2023

web bewertet buch gebundene ausgabe endlich gibt es wieder einmal ein neues buch von pettersson und findus dieses mal eignet sich die geschichte bereits für kinder ab 3

[schau mal was ich kann pettersson almanca ciltli kapak](#) - Aug 02 2022

web schau mal was ich kann pettersson von sven nordqvist bücher orell füssli bücher bücher reihen kinderbücher pettersson und findus beschreibung pettersson und

[schau mal was ich kann pettersson kinderbuchblog](#) - Jan 27 2022

web Über 90 000 hörbücher zum download einzeln oder im abo pettersson und findus schau mal was ich kann pettersson von sven nordqvist und weitere mp3

template sample 1 occupationalenglishtest org - Apr 10 2023

web sample 1 sample test 2 reading sub test question paper parts b c candidate number last name first name middle names profession

[template sample 1 nursample05](#) - Sep 22 2021

oet nursing sample practice test lizz education academy - May 31 2022

web oet for nurses scope sequence this scope and sequence document details the material covered in the english language test for healthcare professionals course

[reading sub test answer key part a](#) - Jan 07 2023

web the ultimate resource to prepare for oet the oet study guide provides you with actionable tasks and links to our best prep material

[all in one oet reading part a guide with practice test tips](#) - Jul 01 2022

web quick links step 1 skim the headings step 2 skim the questions step 3 now start answering the questions start with questions 8 14 not question 1 how to address the

template sample 1 nursample01 - Nov 24 2021

web you must not remove oet material from the test room nursample05 template sample 1 notes assume that today s date is 15 may 2021 you are a nurse in

oet reading sample for nurses pdf 2021 2022 with answers - Jul 13 2023

web oct 1 2021 oet reading sample for nurses pdf this is the latest official oet 2 0 reading sample tests for nurses to prepare for reading section so without further ado let s

reading oet - Nov 05 2022

web our free oet sample tests for nurses are great online oet preparation material and also you can download pdf practice

tests oet tests are examined on reading writing

oet practice online oet sample mock practice online tests - Feb 25 2022

web cambridge english exams and tests oet oet occupational english test oet occupational english test is designed to meet the specific english language needs of

oet reading samples oet reading tips materials for - Mar 09 2023

web 978 1 108 88164 7 the cambridge guide to oet nursing student s book with audio and resources download catherine leyshon gurleen khaira virginia allum 80

oet reading sample for nurses pdf 2021 2022 with answers - Oct 24 2021

oet nursing writing sample tips for nurses benchmark - Apr 29 2022

web online oet practice for healthcare professionals online oet practice for healthcare professionals sample practices nursing medicine physiotherapy

oet reading samples for nurses download pdf entri - Jun 12 2023

web jul 19 2023 oet reading samples for nurses are specifically designed to assess their ability to comprehend and interpret medical related texts accurately these samples

reading cambridge university press assessment - Feb 08 2023

web sample reading sub test answer key part a questions 1 20 1 b 2 c 3 d 4 d 5 a 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 tissue damage scarring

oet sample test oet material for nurses oet 2 0 books pdf - Sep 03 2022

web this article will teach you how to pass oet reading part a since the oet reading test is the same across the different healthcare professions this sample is suitable as an oet

preparation information oet - Dec 06 2022

web there is a total of 42 marks available in the reading sub test part a accounts for 20 marks part b accounts for 6 marks and part c accounts for 16 marks find out with these

occupational english test oet cambridge english - Dec 26 2021

web oct 1 2021 oet reading sample for nurses pdf this is the latest government oet 2 0 reading sample test forward nurses to prepare for reading abschnitt so without further

global online test preparation oet for nurses - Mar 29 2022

web oct 1 2021 oet reading sample for nurses pdf 2021 2022 free oet reading samples pdf for caregivers and clinical in this article englishey will add the recent oet reading

reading sub test question paper parts b c - May 11 2023

web sample reading sub test question paper parts b c time 45 minutes instructions to candidates do not open this question paper until you are told

oet reading tests for practice online oet - Aug 02 2022

web reading time 1 minutes prepare and practice oet exam by downloading the nursing sample practice test by lizz academy these sample test papers contain sample

free oet sample practice tests for nurses pdf oet practice - Oct 04 2022

web download oet sample test reading and listening practice tests full practice tests covering all modules are also available from benchmark oet

reading sample tests oet - Aug 14 2023

web working through our free sample tests is a great way to prepare all without the pressure of test day don t forget to use these alongside other oet preparation material such as our

oet reading sample for nurses pdf 2021 2022 with answers - Jan 27 2022

web you must not remove oet material from the test room nursample01 template sample 1 notes assume that today s date is 10 february 2019 mr lionel