



Province of the
EASTERN CAPE
EDUCATION



**NATIONAL
SENIOR CERTIFICATE**

GRADE 12

JUNE 2023

PHYSICAL SCIENCES P1

MARKS: 150

TIME: 3 hours

This question paper consists of 19 pages, including a 2-page data sheet.

Physical Science Grade 12 P1 2014 Eastern Cape

S Nieto



Physical Science Grade 12 P1 2014 Eastern Cape:
Glencoe Physical Science Charles W. McLaughlin, 2012

Unveiling the Magic of Words: A Report on "**Physical Science Grade 12 P1 2014 Eastern Cape**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Physical Science Grade 12 P1 2014 Eastern Cape**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

https://crm.avenza.com/results/uploaded-files/index.jsp/Service_Repair_Manual_Suzuki_Gsxr_750_2006_2007.pdf

Table of Contents Physical Science Grade 12 P1 2014 Eastern Cape

1. Understanding the eBook Physical Science Grade 12 P1 2014 Eastern Cape
 - The Rise of Digital Reading Physical Science Grade 12 P1 2014 Eastern Cape
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Grade 12 P1 2014 Eastern Cape
 - 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 Physical Science Grade 12 P1 2014 Eastern Cape
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Grade 12 P1 2014 Eastern Cape
 - Personalized Recommendations
 - Physical Science Grade 12 P1 2014 Eastern Cape User Reviews and Ratings
 - Physical Science Grade 12 P1 2014 Eastern Cape and Bestseller Lists

5. Accessing Physical Science Grade 12 P1 2014 Eastern Cape Free and Paid eBooks
 - Physical Science Grade 12 P1 2014 Eastern Cape Public Domain eBooks
 - Physical Science Grade 12 P1 2014 Eastern Cape eBook Subscription Services
 - Physical Science Grade 12 P1 2014 Eastern Cape Budget-Friendly Options
6. Navigating Physical Science Grade 12 P1 2014 Eastern Cape eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Grade 12 P1 2014 Eastern Cape Compatibility with Devices
 - Physical Science Grade 12 P1 2014 Eastern Cape Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Grade 12 P1 2014 Eastern Cape
 - Highlighting and Note-Taking Physical Science Grade 12 P1 2014 Eastern Cape
 - Interactive Elements Physical Science Grade 12 P1 2014 Eastern Cape
8. Staying Engaged with Physical Science Grade 12 P1 2014 Eastern Cape
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Grade 12 P1 2014 Eastern Cape
9. Balancing eBooks and Physical Books Physical Science Grade 12 P1 2014 Eastern Cape
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Grade 12 P1 2014 Eastern Cape
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science Grade 12 P1 2014 Eastern Cape
 - Setting Reading Goals Physical Science Grade 12 P1 2014 Eastern Cape
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science Grade 12 P1 2014 Eastern Cape
 - Fact-Checking eBook Content of Physical Science Grade 12 P1 2014 Eastern Cape
 - 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

Physical Science Grade 12 P1 2014 Eastern Cape Introduction

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Physical Science Grade 12 P1 2014 Eastern Cape free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Physical Science Grade 12 P1 2014 Eastern Cape free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Physical Science Grade 12 P1

2014 Eastern Cape free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Physical Science Grade 12 P1 2014 Eastern Cape. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Physical Science Grade 12 P1 2014 Eastern Cape any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Physical Science Grade 12 P1 2014 Eastern Cape Books

1. Where can I buy Physical Science Grade 12 P1 2014 Eastern Cape 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 Physical Science Grade 12 P1 2014 Eastern Cape 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 Physical Science Grade 12 P1 2014 Eastern Cape 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 Physical Science Grade 12 P1 2014 Eastern Cape 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 Physical Science Grade 12 P1 2014 Eastern Cape 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 Physical Science Grade 12 P1 2014 Eastern Cape :

service repair manual suzuki gsxr 750 2006 2007

service manual schematics

service project lesson plans

service repair manual deutz bfm 1015

service proton satria

service manual total station r127

service repair manual optimax 115 135 150 175 2000

service manual renault kangoo

service repair manual haynes toyota corolla

service repair manual yamaha yz450f 2003

service tech manual for konica minolta c654

sesotho grade 8 june exam

service mode tv akari

service manual triumph sprint rs

service tax rate change in budget 2012

Physical Science Grade 12 P1 2014 Eastern Cape :

introduction to radioactivity and nuclear physics openstax - Aug 20 2023

in this chapter the fundamentals of nuclear radioactivity and the nucleus are explored the following two chapters explore the more important applications of nuclear physics in the field of medicine we will also explore the basics of what we know about quarks and other substructures smaller than nuclei

physics concept development atomic nucleus and radioactivity - Feb 02 2022

physics concept development atomic nucleus and radioactivity unravelling the mystery of the atomic nucleus biology and medicine training education and information plowshare isotopes development physical research communities and aec administrative programs

physics concept development atomic nucleus and radioactivity - May 17 2023

physics concept development atomic nucleus and radioactivity radiations from radioactive substances jul 20 2020 a definitive account first published in 1930 of research into radiation leading to the discovery of the planetary atomic structure structure of atomic nuclei and nuclear transformations feb 24 2021

nuclear physics definition nuclear physics theory radioactivity - Oct 10 2022

nuclear physics is the branch of physics that studies atomic nuclei and their constituents and interactions examples of nuclear interactions or nuclear reactions include radioactive decay nuclear fusion and fission in this article let us study nuclear physics nuclear physics theory nuclear force and radioactivity in detail

physics concept development atomic nucleus and radioactivity - Jul 07 2022

physics concept development atomic nucleus and radioactivity 5 5 precisely accurately and thoroughly the very essence and all the fundamental details of the theory and that is a remarkable achievement i have greatly enjoyed reading these books and learned so many new things from them this series of books will remain a permanent source of

22 2 nuclear forces and radioactivity physics openstax - Sep 21 2023

section learning objectives by the end of this section you will be able to do the following describe the structure and forces present within the nucleus explain the three types of radiation write nuclear equations associated with the various types of radioactive decay

radioactivity definition types applications facts - Nov 11 2022

aug 28 2023 radioactivity property exhibited by certain types of matter of emitting energy and subatomic particles spontaneously it is in essence an attribute of individual atomic nuclei radioactive decay is a property of several naturally occurring elements as well as of artificially produced isotopes of the elements

26 nuclei and radioactivity the national institute of - Aug 08 2022

notes 323 nuclei and radioactivity physics module 7 atoms and nuclei z explain the growth and decay of radioactivity in a sample z calculate the half life and decay constant of a radioactive substance and z explain the uses of radioactivity in various fields 26 1 the atomic nucleus soon after the discovery of nucleus in an atom by rutherford in 1911

4 nuclei and radioactivity richard a muller - Jul 19 2023

quantum physics yet even though it has only 10 15 of the volume of the atom the nucleus contains more than 99 9 of the mass of the atom the nucleus is very small but very massive that was not predicted try to imagine the surprise and disbelief of scientists in 1911 when ernest rutherford discovered this incredible fact

nuclear structure and radioactive decay book chapter - Feb 14 2023

concepts essentials of nuclear physics table of isotopes fundamental nuclear models liquid drop shell model concept of radioactive decay radioactive decay modes α β γ and internal conversion and fission excited states in nuclei electromagnetic transitions angular correlations and polarisation

physics concept development atomic nucleus and radioactivity - Sep 09 2022

discusses the discovery of the atom and its parts the development of nuclear fission in laboratories and how nuclear fission can be and has been used for symmetries in atomic nuclei alejandro frank 2008 12 18 symmetries in atomic nuclei aims to present an overview of recent applications of symmetry to the description of atomic nuclei

nuclear and radiation physics anu - Jan 13 2023

over 3 000 different kinds of atomic nuclei have been discovered in elements that span the periodic table yet each one has unique properties some may exist forever others transform within a fraction of a second some can power satellites as they travel to the outer reaches of the solar system others have special properties that allow them to treat different forms of cancer

atoms and radioactivity portal on nuclear safety - May 05 2022

radioactivity some nuclides have an atomic nucleus that decays spontaneously without any external influence known as radionuclides they transform themselves into other nuclei ionising radiation is emitted during this process this is known as radioactivity

rutherford radioactivity and the atomic nucleus arxiv org - Apr 16 2023

it some future development of atomic theory perhaps a modification of the thomson model would most likely yield a causal explanation of radioactivity in terms of the internal structure of the atom

31 radioactivity and nuclear physics physics libretxts - Jun 18 2023

feb 20 2022 in this chapter the fundamentals of nuclear radioactivity and the nucleus are explored the following two chapters explore the more important applications of nuclear physics in the field of medicine

nuclear physics wikipedia - Mar 15 2023

nuclear physics is the field of physics that studies atomic nuclei and their constituents and interactions in addition to the study of other forms of nuclear matter nuclear physics should not be confused with atomic physics which studies the atom as a whole including its electrons

physics concept development atomic nucleus and radioactivity - Apr 04 2022

oct 9 2023 physics concept development atomic nucleus and radioactivity physics concept development atomic nucleus and radioactivity 2 downloaded from interactivearchivist archivists org on 2023 02 01 by guest modern physics is the most up to date accessible presentation of modern physics available the book is intended to be used in

nuclear physics latest research and news nature - Dec 12 2022

sep 27 2023 nuclear physics is the study of the protons and neutrons at the centre of an atom and the interactions that hold them together in a space just a few femtometres 10 15

nuclear physics nuclear force properties and radioactive - Mar 03 2022

oct 14 2023 properties of nuclear force the overall effect of nuclear forces is attractive nuclear forces are non electrical there is no gravitational force between the nuclear particles nuclear forces are powerful nuclear forces act within a very short range multiples of 10 15 m nuclear forces are charge independent

atomic and nuclear physics definition applications nuclear - Jun 06 2022

atomic physics deals with the atom as a system consisting of a nucleus and electrons nuclear physics deals with the nucleus as a system consisting of nucleons protons and neutrons the main difference is in the scale while the term atomic deals with 1Å 10⁻¹⁰ m where Å is an ångström according to anders jonas Ångström the term

erp life cycle 8 stages of erp implementation life - Apr 29 2023

web tally erp 9 is the world s fastest and most powerful concurrent multi lingual business accounting and inventory management software tally erp 9 designed exclusively to

download tallyprime tallyprime server tallyprime developer - Nov 12 2021

working with projects tallyhelp - Jan 27 2023

web the erp system reduces the complexity of a business and it accelerates the business process by providing it a competitive edge in the marketplace our team of experts is

what is enterprise resource planning system erp - Jul 01 2023

web sep 16 2021 step 1 selection of package every business is different and so are its needs thus choosing the right erp software for your business is the first and the most

tally erp 9 tallyhelp - Mar 29 2023

web working with projects with every release of tally developer 9 the source code of latest tally erp 9 is provided as a default tdl project the latest default tdl is available as

a project report on tally 9 0 pdf invoice voucher scribd - Sep 22 2022

web may 25 2019 this report provides an overview regarding the accounting system of centre for injury prevention research bangladesh ciprb being managed by the finance

erp implementation tally dealer tally accounting software - Nov 24 2022

web reports which assists the management to take timely and correct decisions for the overall productivity and growth of the company real time processing immediate posting

download project on tally erp9 file in pptx format 4567 downloads - Jan 15 2022

web download the latest version of tallyprime an accounting erp inventory management payroll software tallyprime server and tallyprime developer tally is a leading

introduction to tally erp 9 - Feb 25 2023

web tally erp 9 complete video course year 2020 english this course comes with a live project so that students can learn from a scratch to prepare a complete

creating projects tallyhelp - Aug 22 2022

web oct 14 2015 project module an overview how to configure project module project planning type of reports satyam solutions pvt ltd follow tally cloud bi api

pdf mba internship report improving the accounting - Jul 21 2022

web feb 20 2015 tally project 125 4k views 21k views 84 slides tally erp 9 ppt gagan dharwal 49 1k views 36 slides introduction to tally trinity dwarka 22 6k

erp software for manufacturing industry tally solutions - Mar 17 2022

web project on tally erp9 download preview description about basic fundametal to use tally erp courtesy by mahendra prajapat pptx submitted by nagesh on 03 february

tally project pdf pdf voucher payments scribd - Dec 14 2021

tally tutorial learn tally erp 9 tally erp 9 training - May 31 2023

web tally erp 9 is preferred by millions as their business management software across the globe it dynamically adapts to the way you operate your business and helps you simplify

introduction to tally erp 9 ppt slideshare - Feb 13 2022

web tally erp 9 project q 1 create a company on aisha enterprises step for creating a company 1 first install the software in your computer by using the software cd 2 start

[project on tally erp9 slideshare](#) - Oct 04 2023

web apr 12 2016 kulbeer singh economy finance this is a project on tally erp9 with a full detailed which are need to be understand while learning on tally erp9 hope you would

[tally project pdf slideshare](#) - Sep 03 2023

web tally project jul 20 2013 108 likes 125 623 views p piya nanwani technology business tally project of b com final year

tally project 1 of 61 download now tally project

[complete tally erp 9 gst course with live project of clients](#) - Dec 26 2022

web aug 23 2023 tally erp 9 permits business owners and their associates to interact more in accounts related discussions and is a complete product that retains its original

[tally project ppt slideshare](#) - May 19 2022

web dec 13 2021 tally s erp software provides job work in and job work out vouchers to manage the movement of stocks for job work with tally erp 9 you also get the

[tally solutions](#) - Aug 02 2023

web aug 1 2023 tallyprime has been trusted as best business software by smbs for over 30 years download the all new tallyprime it s easier flexible simply better

what is tally erp 9 how to use it tally solutions - Oct 24 2022

web creating projects you can create a new project and enter the corresponding project details to create a project go to file new project or press ctrl shift n enter the

[production planning in tally erp9 slideshare](#) - Jun 19 2022

web tally erp9 full free course tally project work case study 1 april month lecture 10 tally tallyerp9 learntally tally erp 9 with gst full tutorial series in hindi tally

[tally project work case study 1 april month lecture 10](#) - Apr 17 2022

web jul 6 2018 introduction to tally erp 9 jul 6 2018 15 likes 10 506 views download now download to read offline education tally introduction and concepts victor

economics grade 10 2020 term 4 november past exam papers - Dec 05 2022

web economics grade 10 revision notes and past exam papers from 2021 this page contains all agricultural management practices grade 10 learning resources such as

[grade 10 economics exam papers and memos 2019 and 2018](#) - Aug 01 2022

web aug 15 2023 access grade 10 economics papers and accompanying memos for revisions from various years these papers cater to all provinces including limpopo

grade 10 past papers memos economics maths 101 - Feb 24 2022

web jan 29 2020 past exam papers grade 10 economics by meinette van zyl 29th january 2020 24458 0 title categories link tags past exam papers previous article

economics grade 10 september exam papers pdf - Dec 25 2021

web grade 10 economic exam paper oswaal cbse one for all economics class 12 for 2023 exam dec 24 2021 chapter navigation tools cbse syllabus strictly as per

grade 10 economics apps on google play - Jun 11 2023

web on this section you will find economics grade 10 revision notes and past exam papers practical assessment tasks pats examination scope for learners marking

grade 10 economics paper 1 exam papers and memos 2019 - May 30 2022

web 2023 economics gr 10 exam guidelines economics examination guidelines grade 10 2023 this document studocu 2 classification of topics for the

provincial examination november 2022 grade 10 - Oct 03 2022

web economics government grade 10 past papers access the largest collection of past exam papers for grade 10 caps the memos and exam papers are available in

grade 10 business studies june exam and memo paper 1 - Feb 07 2023

web grade 10 economics examination paper cambridge igcse and o level economics study and revision guide aug 09 2020 providing guidance that helps students practice

grade 10 economic exam paper cyberlab sutd edu sg - Nov 23 2021

web visual arts xitsonga this is the best mobile app grade 11 you can download because it is small in size don t fail grade 11 because of data pass your grade 11 live with this app

economics grade 10 november paper 1 2022 teacha - Mar 08 2023

web summaries sa grade 10 business studies exam and memo paper 1 economics for the june exams paper 1 this paper consists of 3 sections taking up 7 pages section a

economics grade 10 exam papers and memos 2023 pdf - Oct 15 2023

web sep 9 2022 download the economics grade 10 exam papers and memos 2023 here the papers and memos are available for download in pdf format including

past exam papers grade 10 economics awsum school news - Jan 26 2022

web to fill out an economics grade 10 september exam you should follow these steps 1 read and understand the instructions start by carefully reading the instructions provided with the exam paper make sure you are clear about the format of the exam the number of questions and any specific requirements or guidelines mentioned

[economics grade 10 past papers sa papers](#) - Sep 02 2022

web may 11 2020 economics grade 10 controlled tests and exam question papers notes and study guides 2022 2021 2020 economics grade 11 controlled tests exam

2023 economics gr 10 exam guidelines studocu - Apr 28 2022

web dec 14 2021 please see below grade 10 past papers memos if you strive to get the best results the development team recommends testing yourself with the question paper

[grade 10 economics examination paper book](#) - Jul 12 2023

web grade 10 economics examination paper oswaal icse 10 sample question papers class 10 economics for board exam 2024 based on the latest cisce oswaal

[economics grade 10 past papers memos english 101](#) - Mar 28 2022

web dec 14 2021 are you in need of grade 10 past papers memos economics it can be a challenge to look for the latest question papers and their respective memorandums let

economics grade 10 past exam question papers memos - Nov 04 2022

web grade 10 economics paper 1 time 2 hours marks 150 13 pages p t o instructions and information answer four questions as follows in the

grade 10 economics papers and memos study guides class - Jun 30 2022

web nov 9 2020 list of grade 10 economics paper 1 exam papers and memos 2019 economics p1 qp gr10 nov 2019 afr d download economics p1 qp gr10

[grade 10 economics november exam papers and memos](#) - Sep 14 2023

web grade 10 economics november exam papers and memos download accounting focuses on measuring performance and processing and communicating financial

[grade 10 economics examination paper book](#) - Jan 06 2023

web sep 28 2021 browse grade 10 learning resources by subject limpopo mpumalanga north west western cape kwazulu natal free state eastern cape northern cape

[grade 11 exam papers on the app store](#) - Oct 23 2021

economics grade 10 controlled tests and exam question - May 10 2023

web oct 20 2022 grade 10 economics november examination paper 2 with marking guideline section a short questions multiple choice match the column etc section

grade 10 economics november examination paper 2 with - Apr 09 2023

web oct 18 2022 economics grade 10 november paper 1 2022 quantity add to cart share this resource grade 10 economics november examination paper 2 with

grade 10 economics exam papers testpapers - Aug 13 2023

web testpapers grade 10 economics past exam papers for grade 10 economics 2023 2012 past march june september and november exam papers memos available in