



basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

**NATIONAL
SENIOR CERTIFICATE
Nasionale
Senior Sertifikaat**

GRADE/GRAAD 12

**PHYSICAL SCIENCES: CHEMISTRY (P2)
FISIESE WETENSKAPPE: CHEMIE (V2)**

FEBRUARY/MARCH 2014/FEBRUARIE/MAART 2014

MEMORANDUM

MARKS/PUNTE: 100

**Downloaded from
Matric Exam Papers app**



**TvetPapers.co.za
ultradeep.co.za**

Memo For Physical Sciences P2 Dbe Feb March 2014

L Towne



Memo For Physical Sciences P2 Dbe Feb March 2014:

Recognizing the habit ways to acquire this books **Memo For Physical Sciences P2 Dbe Feb March 2014** is additionally useful. You have remained in right site to start getting this info. get the Memo For Physical Sciences P2 Dbe Feb March 2014 belong to that we have the funds for here and check out the link.

You could purchase guide Memo For Physical Sciences P2 Dbe Feb March 2014 or get it as soon as feasible. You could quickly download this Memo For Physical Sciences P2 Dbe Feb March 2014 after getting deal. So, similar to you require the book swiftly, you can straight acquire it. Its so enormously simple and so fats, isnt it? You have to favor to in this atmosphere

https://splashdogs.com/public/browse/fetch.php/manual_318_ti.pdf

Table of Contents Memo For Physical Sciences P2 Dbe Feb March 2014

1. Understanding the eBook Memo For Physical Sciences P2 Dbe Feb March 2014
 - The Rise of Digital Reading Memo For Physical Sciences P2 Dbe Feb March 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Memo For Physical Sciences P2 Dbe Feb March 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Memo For Physical Sciences P2 Dbe Feb March 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Memo For Physical Sciences P2 Dbe Feb March 2014
 - Personalized Recommendations
 - Memo For Physical Sciences P2 Dbe Feb March 2014 User Reviews and Ratings
 - Memo For Physical Sciences P2 Dbe Feb March 2014 and Bestseller Lists
5. Accessing Memo For Physical Sciences P2 Dbe Feb March 2014 Free and Paid eBooks

- Memo For Physical Sciences P2 Dbe Feb March 2014 Public Domain eBooks
 - Memo For Physical Sciences P2 Dbe Feb March 2014 eBook Subscription Services
 - Memo For Physical Sciences P2 Dbe Feb March 2014 Budget-Friendly Options
6. Navigating Memo For Physical Sciences P2 Dbe Feb March 2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Memo For Physical Sciences P2 Dbe Feb March 2014 Compatibility with Devices
 - Memo For Physical Sciences P2 Dbe Feb March 2014 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Memo For Physical Sciences P2 Dbe Feb March 2014
 - Highlighting and Note-Taking Memo For Physical Sciences P2 Dbe Feb March 2014
 - Interactive Elements Memo For Physical Sciences P2 Dbe Feb March 2014
 8. Staying Engaged with Memo For Physical Sciences P2 Dbe Feb March 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Memo For Physical Sciences P2 Dbe Feb March 2014
 9. Balancing eBooks and Physical Books Memo For Physical Sciences P2 Dbe Feb March 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Memo For Physical Sciences P2 Dbe Feb March 2014
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Memo For Physical Sciences P2 Dbe Feb March 2014
 - Setting Reading Goals Memo For Physical Sciences P2 Dbe Feb March 2014
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Memo For Physical Sciences P2 Dbe Feb March 2014
 - Fact-Checking eBook Content of Memo For Physical Sciences P2 Dbe Feb March 2014
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Memo For Physical Sciences P2 Dbe Feb March 2014 Introduction

Memo For Physical Sciences P2 Dbe Feb March 2014 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. Memo For Physical Sciences P2 Dbe Feb March 2014 Offers a vast collection of books, some of which are available for free as PDF downloads, particularly older books in the public domain. Memo For Physical Sciences P2 Dbe Feb March 2014 : 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 Memo For Physical Sciences P2 Dbe Feb March 2014 : Has an extensive collection of digital content, including books, articles, videos, and more. It has a massive library of free downloadable books. Free-eBooks Memo For Physical Sciences P2 Dbe Feb March 2014 Offers a diverse range of free eBooks across various genres. Memo For Physical Sciences P2 Dbe Feb March 2014 Focuses mainly on educational books, textbooks, and business books. It offers free PDF downloads for educational purposes. Memo For Physical Sciences P2 Dbe Feb March 2014 Provides a large selection of free eBooks in different genres, which are available for download in various formats, including PDF. Finding specific Memo For Physical Sciences P2 Dbe Feb March 2014, especially related to Memo For Physical Sciences P2 Dbe Feb March 2014, 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 Memo For Physical Sciences P2 Dbe Feb March 2014, Sometimes enthusiasts share their designs or concepts in PDF format. Books and Magazines Some Memo For Physical Sciences P2 Dbe Feb March 2014 books or magazines might include. Look for these in online stores or libraries. Remember that while Memo For Physical Sciences P2 Dbe Feb March 2014, 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 Memo For Physical Sciences P2 Dbe Feb March 2014 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 Memo For Physical Sciences P2 Dbe Feb March 2014 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 Memo For Physical Sciences P2 Dbe Feb March 2014 eBooks, including some popular titles.

FAQs About Memo For Physical Sciences P2 Dbe Feb March 2014 Books

1. Where can I buy Memo For Physical Sciences P2 Dbe Feb March 2014 books? Bookstores: Physical bookstores like Barnes & Noble, Waterstones, and independent local stores. Online Retailers: Amazon, Book Depository, and various online bookstores offer a wide range of books in physical and digital formats.
2. What are the different book formats available? Hardcover: Sturdy and durable, usually more expensive. Paperback: Cheaper, lighter, and more portable than hardcovers. E-books: Digital books available for e-readers like Kindle or software like Apple Books, Kindle, and Google Play Books.
3. How do I choose a Memo For Physical Sciences P2 Dbe Feb March 2014 book to read? Genres: Consider the genre you enjoy (fiction, non-fiction, mystery, sci-fi, etc.). Recommendations: Ask friends, join book clubs, or explore online reviews and recommendations. Author: If you like a particular author, you might enjoy more of their work.
4. How do I take care of Memo For Physical Sciences P2 Dbe Feb March 2014 books? Storage: Keep them away from direct sunlight and in a dry environment. Handling: Avoid folding pages, use bookmarks, and handle them with clean hands. Cleaning: Gently dust the covers and pages occasionally.
5. Can I borrow books without buying them? Public Libraries: Local libraries offer a wide range of books for borrowing. Book Swaps: Community book exchanges or online platforms where people exchange books.
6. How can I track my reading progress or manage my book collection? Book Tracking Apps: Goodreads, LibraryThing, and Book Catalogue are popular apps for tracking your reading progress and managing book collections. Spreadsheets: You can create your own spreadsheet to track books read, ratings, and other details.
7. What are Memo For Physical Sciences P2 Dbe Feb March 2014 audiobooks, and where can I find them? Audiobooks: Audio recordings of books, perfect for listening while commuting or multitasking. Platforms: Audible, LibriVox, and Google Play Books offer a wide selection of audiobooks.
8. How do I support authors or the book industry? Buy Books: Purchase books from authors or independent bookstores. Reviews: Leave reviews on platforms like Goodreads or Amazon. Promotion: Share your favorite books on social media or recommend them to friends.
9. Are there book clubs or reading communities I can join? Local Clubs: Check for local book clubs in libraries or

community centers. Online Communities: Platforms like Goodreads have virtual book clubs and discussion groups.

10. Can I read Memo For Physical Sciences P2 Dbe Feb March 2014 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 Memo For Physical Sciences P2 Dbe Feb March 2014 :

manual 318 ti

manual 2015 hyundai accent

manitoba hydro wiring guide

~~managing your personal finances test chapter 27~~

~~manology secrets of your man's mind revealed~~

managerial economics 9th edition crhistoper

~~mano a mano~~

maniac magee packet answers

manger et perdre du poids

~~manual 1104c 44tag2~~

managerial accounting hilton 9th edition

managerial accounting garrison 15th edition answer key

maneb 2014 resurts

manual 2003 chrysler sebring coupe repair manual

maneb 32 30 31 34pslc 20

Memo For Physical Sciences P2 Dbe Feb March 2014 :

mbut mbuttan hot masala actress rasika sexy - Jan 08 2023

web mar 30 2011 hot masala actress rasika sexy wallpaepers at 8 08 am labels actresses gallery actresses nude wallpapers
mallu actreses wallpaepers mallu actresses hot photos rasiak rasika wallppares

tamil actress bikini photos on flickr flickr - May 12 2023

web sexy south indian aunties in saree and in sexy dresses from tamil telugu and mallu movies and pictures sexy south indian
models by saloodhara 50 18

mallu actress media malluactress media instagram photos - Aug 15 2023

web 82k followers 0 following 2 654 posts see instagram photos and videos from mallu actress media malluactress media *mallu on pinterest* - Oct 05 2022

web anusree nair siima 2019 exclusive high definition photos image 13 tollywood actress stills stills heroines hot actress photos actors actresses beautiful women anu emmanuel malayalam actress indian girls unique blouse designs stylish blouse design stylish dress designs explore a hand picked collection of pins about mallu

mallu rasika hot photo help environment harvard edu - Mar 30 2022

web expense of mallu rasika hot photo and numerous book collections from fictions to scientific research in any way among them is this mallu rasika hot photo that can be your partner nanomedicine manufacturing and applications francis verpoort 2021 06 22 nanomedicine explores the modification and enhancement of the properties and

mallu aunty photos on flickr flickr - Sep 04 2022

web sexy and fat south indian mallu aunty actress shakeela masala5 in sexy south indian aunties in saree and in sexy dresses from tamil telugu and mallu movies and pictures girlactressespics blogspot in click this link for more pics

glamorous pictures of rasika sunil from her maldives vacay - Aug 03 2022

web jan 4 2022 a look at the sensuous and bold pictures of rasika sunil from her maldives vacay

mallu rasika hot photo uniport edu ng - Jan 28 2022

web may 19 2023 mallu rasika hot photo 2 9 downloaded from uniport edu ng on may 19 2023 by guest in india the book s six provocative but substantive chapters of the book engage a wide range of events objects histories narratives and episodes with the intent of interrogating what franz fanon called the zone of occult

50 desi masala mallu hot sex photos hot kerala xxx hd pics - Dec 27 2021

web aug 14 2021 50 hd provocative kerala mallu hot sex photos now leaked august 14 2021 by goddess aphrodite check out these leaked kerala xxx hd pics of horny sex hungry women they will increase your arousal lust a hundredfold if you watch these new desi masala mallu hot sex photos jerk off hard

mallu rasika hot photo uniport edu ng - Jul 02 2022

web kindly say the mallu rasika hot photo is universally compatible with any devices to read supersize mad libs mad libs 2017 06 27 mad libs is the world s greatest word game and the perfect gift or activity for anyone who likes to laugh write in the missing words on each page to create your

malluhorny reddit - Jul 14 2023

web may 7 2021 r malluhorny photos and videos of mallu actress models and influencers that you found hot

mallu rasika hot photo uniport edu ng - Apr 30 2022

web may 17 2023 mallu rasika hot photo 1 1 downloaded from uniport edu ng on may 17 2023 by guest mallu rasika hot photo eventually you will unquestionably discover a additional experience and realization by spending more cash still when get you give a positive response that you require to get those every needs once having significantly

mallu photos and premium high res pictures getty images - Nov 06 2022

web browse getty images premium collection of high quality authentic mallu stock photos royalty free images and pictures mallu stock photos are available in a variety of sizes and formats to fit your needs

mallu actress photos on flickr flickr - Feb 09 2023

web see more sexy pictures hot and sexy south indian tamil mallu telugu and malayalam actresses

mallu actress photos on flickr flickr - Dec 07 2022

web see more sexy pictures hot and sexy south indian tamil mallu telugu and malayalam actresses

kerala famous beauty tulsii complete collection pics scroller - Apr 11 2023

web desiboners 2 kerala famous beauty tulsii complete collection pics 57 videos must watch more like this media controls download autoscroll

rasika hot wallpapers sexy masala photos naked - Mar 10 2023

web actresses hot photos actresses masala photos actresses naked videos mallu actresses hot videos mallu actresses sexy photos rasika hot photos rasika hto wallpapers

mallu hot photos on flickr flickr - Jun 13 2023

web aug 15 2007 see more sexy pictures hot and sexy south indian tamil mallu telugu and malayalam actresses

mallu rasika hot photo avenza dev avenza com - Jun 01 2022

web nov 29 2022 mallu rasika hot photo 2 7 downloaded from avenza dev avenza com on november 29 2022 by guest publication puts a youthful crafty spin on diy decor with refreshing ideas clear directions and beautiful photographs this book will inspire diy enthusiasts of all skill levels to spruce up their spaces in a weekend or less

mallu rasika hot photo uniport edu ng - Feb 26 2022

web apr 8 2023 mallu rasika hot photo 1 8 downloaded from uniport edu ng on april 8 2023 by guest mallu rasika hot photo this is likewise one of the factors by obtaining the soft documents of this mallu rasika hot photo by online you might not require more period to spend to go to the books establishment as skillfully as search for them

database systems design implementation and management - Apr 11 2023

web database systems design implementation and management fifth edition is the only book that takes students step by step through the entire process of database development and creation this text provides the most comprehensive detailed and clear coverage of database basics with ample exercises and problems at the end of each chapter to

database systems a practical approach to design implementation - Feb 26 2022

web jan 1 2010 pdf on jan 1 2010 t m connolly and others published database systems a practical approach to design implementation and management find read and cite all the research you need on researchgate

database principles fundamentals of design implementation - Sep 04 2022

web mar 13 2012 filled with visual aids such as diagrams illustrations and tables this market leading book provides in depth coverage of database design demonstrating that the key to successful database implementation is in proper design of databases to fit within a larger strategic view of the data environment

database design and implementation second edition springer - Jun 13 2023

web this textbook emphasizes the why of implementation decisions in database systems covering all components from the lowest the disk and file manager to the highest the jdbc client interface level it is complemented by a sample database that allows readers to examine and modify its code

database systems principles design and implementation - Aug 15 2023

web database systems principles design and implementation ricardo catherine m free download borrow and streaming internet archive

database principles and design colin ritchie google books - Mar 30 2022

web colin ritchie cengage learning 2008 computers 388 pages database principles and design provides students and practitioners with a thorough grounding in theoretical principles before then providing them with the tools

database principles fundamentals of design implementation - Jul 14 2023

web the third edition of database principles maintains its engaging writing style and brevity its unique balance between theory and practice and its wealth of examples throughout the text it

database systems design implementation management - Jan 08 2023

web now you can gain a solid foundation in database design and implementation with the practical easy to understand approach in the market leading database systems design implementation and management 13e diagrams illustrations and tables clarify in depth coverage of database design

the database design and implementation process brainkart - Dec 27 2021

web database system implementation and tuning the design process consists of two parallel activities as illustrated in figure 10.1 the first activity involves the design of the data content structure and constraints of the database the second relates to the design of database applications to keep the figure simple we have avoided showing

database systems design implementation and management - Apr 30 2022

web database systems design implementation and management chapter 1 database systems objectives in this chapter you

will learn the difference between data and information what a database is the various types of databases and why they are valuable assets for decision making the importance of database design

database systems principles design and implementation - Oct 05 2022

web database systems principles design and implementation catherine m ricardo macmillan 1990 database design 576 pages 1 review reviews aren't verified but

database design and implementation springerlink - Jul 02 2022

web the general purpose is to produce a conceptual model that can be implemented using a database management system it must be developed according to correct principles otherwise the resulting system will not function efficiently in terms of either data entry storage and update or speed and quality of information retrieval

database systems design implementation management - Mar 10 2023

web jan 12 2016 readers gain a solid foundation in database design and implementation with the practical and easy to understand approach in database systems design implementation and management 12e filled with diagrams illustrations and tables this market leading text provides in depth coverage of database design

database systems design implementation and management - Aug 03 2022

web nov 20 2009 database systems design implementation and management ninth edition a market leader for database texts gives readers a solid foundation in practical database design and implementation the book provides in depth coverage of database design demonstrating that the key to successful database

database systems a practical approach to design implementation - Dec 07 2022

web methodology methodologyconceptual database design methodologylogical database design for relational model methodologyphysical database design for relational databases methodologymonitoring and tuning the operational system

database systems design implementation and management - Jun 01 2022

web database systems design implementation and management objectives about data modeling ☐☐☐☐ and why data models ☐☐ ☐☐ are important about the basic data modeling building blocks what business rules ☐☐☐☐ are and how they influence database design how the major data models evolved how data models can be

database design basics microsoft support - May 12 2023

web what is good database design certain principles guide the database design process the first principle is that duplicate information also called redundant data is bad because it wastes space and increases the likelihood of errors and inconsistencies the second principle is that the correctness and completeness of information is important

database systems principles design and implementation - Nov 06 2022

web cookies on oclc websites our web pages use cookies information about how you interact with the site when you select

accept all cookies you re agreeing to let your browser store that data on your device so that we can provide you with a better more relevant experience

database systems principles design and implementation - Feb 09 2023

web cited by august s and abrams l 2010 database project as source of reinforcement and discovery journal of computing sciences in colleges 25 4 172 178 online publication date 1 apr 2010 chenoweth t schuff d and st louis r 2003

database design wikipedia - Jan 28 2022

web database design is the organization of data according to a database model the designer determines what data must be stored and how the data elements interrelate with this information they can begin to fit the data to the database model a database management system manages the data accordingly

trophic level pyramid teaching resources tpt - Jan 12 2023

web this activity can serve as a quick review or formative assessment of the following concepts energy pyramids trophic levels flow of energy 10 rule producers primary secondary tertiary consumers and decomposers

trophic levels activities games study com - May 04 2022

web lesson course 4 5k views mystery plant animal fly swat in this team game students will use a fly swatter to classify living things according to trophic level materials 2 sets of signs

energy pyramid activities games study com - Jul 06 2022

web teacher directions show the class an example of an energy pyramid for a specific ecosystem identify and describe the flow of energy through the pyramid s producers and primary secondary

trophic pyramids teaching resources teachers pay teachers - Dec 11 2022

web this activity can serve as a quick review or formative assessment of the following concepts energy pyramids trophic levels flow of energy 10 rule producers primary secondary tertiary consumers and decomposers

trophic level read biology ck 12 foundation - Oct 09 2022

web feb 24 2012 ecological pyramid this pyramid shows how energy and biomass decrease from lower to higher trophic levels ecological pyramids can demonstrate the decrease in energy biomass or numbers within an ecosystem trophic levels and biomass with less energy at higher trophic levels there are usually fewer organisms

trophic pyramids serendip studio - Jun 17 2023

web this provides a context for students to figure out why the rate of biomass production is higher for the producers than for the primary consumers in an ecosystem then students construct and analyze trophic pyramids

determine how energy flows in an energy pyramid lesson plans - Mar 14 2023

web the lesson includes research based strategies and strategic questions that prepare students for assessments in this

lesson students identify the producer and the primary secondary and tertiary consumer s then they place each organism in the correct trophic level on the energy pyramid

energy pyramid lesson plan study com - Apr 03 2022

web energy pyramid lesson plan instructor sharon linde sharon has an masters of science in mathematics and a masters in education cite this lesson looking for a fun and engaging way

lesson building an energy pyramid middle tennessee state university - Jul 18 2023

web objectives students will construct an energy pyramid to show the flow of energy through the cedar glade ecosystem students will calculate how much energy is transferred from one trophic level to the next trophic level learning standards cle 3210 2 1 3210 3 1 3255 3 8 3255 3 9 3255 4 1 3260 2 1

trophic pyramid lesson plans worksheets reviewed by - Aug 07 2022

web find trophic pyramid lesson plans and teaching resources quickly find that inspire student learning

energy pyramid worksheets cut and paste reading passage matching - Feb 01 2022

web teaching topic energy pyramid what the resource includes cut and paste energy pyramid activity reading comprehension with questions early finisher matching activity experiment to visually show how energy changes at each trophic level assessment quiz answer keys the benefits you get better teaching materials better teaching

trophic level docx detailed lesson plan school leonora - Mar 02 2022

web may 29 2022 detailed lesson plan school leonora s salapantan national high school grade level 8 teacher ms jazels sales learning area biology teaching date and time may 09 2022 9 30 am 10 30 am quarter second i objectives a content standards the learners demonstrate an understanding of the one way flow of energy b

trophic levels review article ecology khan academy - Sep 20 2023

web one time recurring high school biology course high school biology unit 9 lesson 5 trophic levels flow of energy and matter through ecosystems food chains food webs example identifying roles in a food web energy flow and primary productivity trophic levels review science high school biology ecology trophic levels

food chain energy pyramid lesson plans worksheets - Sep 08 2022

web middle or high school environmental studies classes will learn much from this presentation on energy in ecosystems it covers the foundational topics of trophic levels food webs and nutrient cycles using informational text and

trophic levels lesson plan study com - Aug 19 2023

web trophic levels lesson plan instructor adrienne baron adrienne has a master s degree in cancer biology and has taught high school and college biology cite this lesson trophic

harmful algal blooms climate science for the classroom - Apr 15 2023

web lesson 1 introduction to phenomenon harmful algal blooms habs students create a conceptual diagram and then grow an algal bloom in the classroom lesson 2 ecosystem trophic interactions students play a game trace the toxin to explore trophic level interactions and trace the flow of energy throughout the marine environment lesson 3

trophic pyramid tpt - Feb 13 2023

web this lesson on food chains webs and pyramids includes an 18 slide powerpoint lesson that covers the following topics food chains food webs predator prey pyramid of biomass pyramid of numbers and pyramid of energy it includes links to interactive websites and videos for review new

food chain worksheets for high school lovetoknow - Jun 05 2022

web trophic levels in a food chain can also be discussed in terms of energy the pyramid depicts how both energy and substances are passed from one trophic level to the next and how much of the energy is lost to the environment

approximately ten percent of energy is passed on from one level to the next

trophic levels pyramid teaching resources teachers pay - Nov 10 2022

web this activity can serve as a quick review or formative assessment of the following concepts energy pyramids trophic levels flow of energy 10 rule producers primary secondary tertiary consumers and decomposers

flow of energy through trophic levels sas pdesas org - May 16 2023

web energy pyramid a diagram showing the flow of energy through a food chain trophic levels the feeding levels in a food chain producers organisms that use inorganic material such as sunlight or chemical compounds to produce their own food consumers organisms that eat other organisms for energy