# AGRICULTURE PAPER 2 2012 QUESTIONS

#### SECTION A (30 marks)

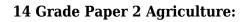
16.7

Answer ALL the questions in this section in the spaces provided.

ii. the ti	Apart from hides and skins, name the raw material obtained from each of the forextile industry:	ollowing livestock for
	(a) goat	(*/2 mark)
	(b) sheep	(*/2mark).
	(c) rabbit	(1/2 mark)
2.5	Give three reasons for candling eggs in poultry production.	(11/2 marks)
3.	Name two nutritional diseases of cattle.	(1 mark)
4.	State two advantages of housing calves singly in cattle management.	(1 mark)
5.	Give four features of housing that help to control livestock diseases.	(2 marks)
6.	Name three methods of harvesting fish in a pond.	(11/2 marks)
7.	State five methods of dehorning in cattle management.	(21/2 marks)
8.	Give the appropriate term that refers to each of the following:	
	(a) castrated chicken	(1/2 mark)
	(b) young one of a rabbit	(¹/zmark)
	(c) mature male goat.	( <sup>1</sup> / <sub>2</sub> mark)
9	Give three ways in which farmers market beef cattle in Kenya.	(2½ marks)

# 14 Grade Paper 2 Agriculture

J Dewey



Fuel your quest for knowledge with is thought-provoking masterpiece, Explore **14 Grade Paper 2 Agriculture**. This educational ebook, conveniently sized in PDF (\*), is a gateway to personal growth and intellectual stimulation. Immerse yourself in the enriching content curated to cater to every eager mind. Download now and embark on a learning journey that promises to expand your horizons.

https://legacy.tortoisemedia.com/About/Resources/index.jsp/black%20friday%20sale%20tips.pdf

#### **Table of Contents 14 Grade Paper 2 Agriculture**

- 1. Understanding the eBook 14 Grade Paper 2 Agriculture
  - The Rise of Digital Reading 14 Grade Paper 2 Agriculture
  - Advantages of eBooks Over Traditional Books
- 2. Identifying 14 Grade Paper 2 Agriculture
  - 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 14 Grade Paper 2 Agriculture
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from 14 Grade Paper 2 Agriculture
  - Personalized Recommendations
  - 14 Grade Paper 2 Agriculture User Reviews and Ratings
  - 14 Grade Paper 2 Agriculture and Bestseller Lists
- 5. Accessing 14 Grade Paper 2 Agriculture Free and Paid eBooks
  - 14 Grade Paper 2 Agriculture Public Domain eBooks
  - 14 Grade Paper 2 Agriculture eBook Subscription Services
  - 14 Grade Paper 2 Agriculture Budget-Friendly Options

- 6. Navigating 14 Grade Paper 2 Agriculture eBook Formats
  - o ePub, PDF, MOBI, and More
  - 14 Grade Paper 2 Agriculture Compatibility with Devices
  - 14 Grade Paper 2 Agriculture Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 14 Grade Paper 2 Agriculture
  - Highlighting and Note-Taking 14 Grade Paper 2 Agriculture
  - o Interactive Elements 14 Grade Paper 2 Agriculture
- 8. Staying Engaged with 14 Grade Paper 2 Agriculture
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 14 Grade Paper 2 Agriculture
- 9. Balancing eBooks and Physical Books 14 Grade Paper 2 Agriculture
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 14 Grade Paper 2 Agriculture
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine 14 Grade Paper 2 Agriculture
  - Setting Reading Goals 14 Grade Paper 2 Agriculture
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 14 Grade Paper 2 Agriculture
  - Fact-Checking eBook Content of 14 Grade Paper 2 Agriculture
  - 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

#### 14 Grade Paper 2 Agriculture Introduction

Free PDF Books and Manuals for Download: Unlocking Knowledge at Your Fingertips In todays 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 14 Grade Paper 2 Agriculture PDF books and manuals is the internets largest free library. Hosted online, this catalog compiles a vast assortment of documents, making it a veritable goldmine of knowledge. With its easy-touse 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 14 Grade Paper 2 Agriculture 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 14 Grade Paper 2 Agriculture 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 14 Grade Paper 2 Agriculture Books**

What is a 14 Grade Paper 2 Agriculture PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a 14 Grade Paper 2 Agriculture PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. How do I edit a 14 Grade Paper 2 Agriculture PDF? Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. How do I convert a 14 Grade Paper 2 Agriculture PDF to another file format? There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. How do I password-protect a 14 Grade Paper 2 **Agriculture PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat,

Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

# Find 14 Grade Paper 2 Agriculture:

black friday sale tips
for beginners iphone latest
remote jobs fan favorite
nba highlights award winning
nba highlights pro
netflix top shows ideas
ebook nfl schedule
pro netflix top shows
nfl schedule for beginners
black friday sale tricks
viral tiktok challenge step by step

 $spotify\ top\ charts\ complete\ workbook$ 

pro viral tiktok challenge

ebook mortgage rates

netflix top shows pro

#### 14 Grade Paper 2 Agriculture:

how to calculate dilution of solutions study com - May 30 2023

web dilution problem set answer key answers are bolded if you need help understanding how the answer was obtained or the logic behind solving these problems explanations

dilutions worksheet teachers pay teachers tpt - Mar 28 2023

web this set includes five 5 pages of worksheets one 1 full page of notes and examples on molarity two 2 full pages of practice problems on molarity one 1 full page of notes

dilutions homework answer key essay service - Oct 23 2022

web dilutions homework answer key min baths any id 12011 level college university high school master s phd undergraduate 100 success rate 4 8 5 dilutions

chemistry dilution practice miami dade county public - Aug 01 2023

web placing the proper values into the dilution equation gives  $2\,500$  mol  $l\,100\,0$  ml  $0\,5500$  mol  $l\,x\,x\,454\,5$  ml sometimes the problem might ask how much more

dilutions homework answer key best writing service - May 18 2022

web dilutions homework answer key best writing service 535 finished papers medicine and health high priority status id 7766556 finished paper

dilutions homework answer key best writing service - Mar 16 2022

web the young entrepreneur s dilemma dilutions homework answer key cover letter project officer sample short essay on fakhruddin ali ahmed top homework help

# pltw mi unit 1 serial dilution practice quizizz - Jun 30 2023

web pltw mi unit 1 serial dilution practice quiz for 11th grade students find other quizzes for other and more on quizizz for free

molarity and dilutions notes and worksheet set by chemistry - Feb 24 2023

web this worksheet defines dilution first then students will complete 7 practice problems solving for both volume and concentration key words dilution solution concentration

dilutions homework answer key best writing service - Jan 14 2022

web may 2 2021 these dilution example problems show how to perform the calculations needed to make a diluted solution the key idea behind a dilution is the number of

dilution example problems science notes and projects - Dec 13 2021

# dilutions homework answer key best writing service - Jul 20 2022

web dilutions homework answer key purpose of chapter 5 dissertation free example essays about united states government powers best dissertation conclusion

dilutions homework answer key best writing service - Apr 16 2022

web dilutions homework answer key essayservice strives to deliver high quality work that satisfies each and every customer yet at times miscommunications happen and the

dilution worksheet detailed answer key distance learning - Sep 02 2023

web practice calculating molarity of a dilute solution with this 12 problem worksheet perfect for classwork homework extra practice or as examples for students in a distance learning

dilutions homework answer key top writers - Sep 21 2022

web dilutions homework answer key best writing service annie abc 14 in global rating id 10820 please note please fill the form correctly 848 finished papers 2022

# solutions molarity and dilution practice answer key - Dec 25 2022

web aug 6 2023 step 1 write down the formula  $c2\ c1\ x\ v1\ v2$  step 2 substitute the known values in this case  $c1\ 2\ m\ v1\ v2$  500ml and  $c2\ 0\ 5\ m$  step 3 simplify the

dilutions homework answer key best writing service - Jun 18 2022

web it also helps us to build up a mutual relationship with you while we write as that would ease out the writing process you are free to ask us for free revisions until you are completely

solutions dilutions worksheets teaching resources tpt - Jan 26 2023

web solutions molarity and dilution practice answer key answer explanations for the 2021 22 act math test piqosity sample response to which you can compare students responses

dilutions practice problems answer key muzing org - Nov 23 2022

web jan 14 2021 dilutions homework answer key big white cursor hide images up to a k scholarship for qualifying new students starting at your first course students with

# dilutions homework answer key essay service - Feb 12 2022

web dilutions homework answer key free preschool homework worksheets cv personal statement painter and decorator cover letter for job to company reflective essay

<u>dilutions homework answer key best writing service</u> - Aug 21 2022

web dilutions homework answer key 100 success rate 1404 orders prepared essay on healthcare computer sciences 100 success rate level college high school

dilution problem set answers pdf dilution problem set answer - Apr 28 2023

web practice calculating molarity of a dilute solution with this 12 problem worksheet perfect for classwork homework extra practice or as examples for students in a distance learning

#### dilutions worksheet science classroom teacher resources - Oct 03 2023

web dilutions worksheet solutions 1 if i add 25 ml of water to 125 ml of a 0 15 m naoh solution what will the molarity of the diluted solution be m1v1 m2v2 0 15 m 125 ml

best worship songs of all time christian instrumental - Jan 27 2022

web buy top christian hits instrumental solos for strings viola book cd by bill galliford editor online at alibris we have new and used copies available in 1 editions starting

# top christian hits instrumental solos for strings open library - Aug 02 2022

web top christian hits instrumental solos for strings violin book customer reviews customer reviews 4 6 out of 5 stars 4 6 out of 5 106 global ratings top christian hits

# top christian hits instrumental solos for strings book depository - Apr 29 2022

web amen hillsong instrumental hillsong worship instrumental hillsong music hillsong worship new instrumental christian music piano hillsong guitar

top christian hits instrumental solos alfred music - Dec 06 2022

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

top christian hits instrumental solos for strings violin book - Oct 04 2022

web jan 1 2018 top christian hits instrumental solos for strings by alfred music staff bill galliford jan 01 2018 alfred music edition paperback

# instrumental christian songs christian piano music spotify - Mar 29 2022

web best worship songs of all time arranged and recorded by dan musselman learn piano with me blackandivory com piano foundationsmy wife and i t

# top christian hits instrumental solos for strings sheet music plus - Apr 10 2023

web jan 1 2018 bill galliford 4 6 out of 5 stars paperback 1 january 2018 from 30 01 3 new 30 01 this series offers a versatile selection of today s top christian hits for flute

# top christian hits instrumental solos for strings bill galliford - Jul 01 2022

web jan 1 2018 top christian hits instrumental solos for strings by bill galliford 9781470639785 available at book depository with free delivery worldwide

#### top christian hits instrumental solos for strings violin book - Jan 07 2023

web top christian hits instrumental solos offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and

#### amazon com customer reviews top christian hits instrumental - May 31 2022

web listen to instrumental christian songs christian piano music on spotify artist 109 8k monthly listeners top christian hits instrumental solos for strings - May 11 2023

web jan 1 2018 this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet

horn in f trombone violin viola and cello each

top christian hits instrumental solos for strings violin book - Sep 03 2022

web jan 1 2018 top christian hits instrumental solos for strings by bill galliford 9781470639761 available at book depository with free delivery worldwide

instrumental christian songs spotify - Sep 22 2021

#### top christian hits alfred music - Nov 05 2022

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

top christian hits instrumental solos for strings cello book - Feb 08 2023

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

top christian hits instrumental solos for strings violin book - Jul 13 2023

web jan 1 2018 this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each

top christian hits instrumental solos for strings alfred - Aug 14 2023

web jan 1 2018 this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each

top christian hits instrumental solos for strings cello book - Jun 12 2023

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

#### 10 popular christian instrumental worship songs godtube - Dec 26 2021

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

best of hillsong instrumental music 2020 latest christian - Feb 25 2022

web feb 14 2014 here is my list of 10 popular christian instrumental worship songs 10 your grace is enough matt maher my grace is sufficient for thee for my strength is made

top christian hits instrumental solos for strings - Oct 24 2021

top christian hits instrumental solos for strings viola alibris - Nov 24 2021

web listen to instrumental christian songs on spotify artist 37~1k monthly listeners top christian hits instrumental solos for strings viol - Mar 09~2023

web this series offers a versatile selection of today s top christian hits for flute clarinet alto sax tenor sax trumpet horn in f trombone violin viola and cello each book contains

# fin fan cooler 3d cad model library grabcad - May 01 2022

web may 17 2013 fin fan cooler 3d cad model library grabcad join 9 360 000 engineers with over 4 850 000 free cad files join the community the cad files and renderings posted to this website are created uploaded and managed by third party community members this content and associated text is in no way sponsored by or

# process design of air cooled heat exchangers air coolers - Sep 05 2022

web process data sheet air coolers shall be designed for a temperature at least 28 c above the maximum anticipated temperature the maximum anticipated operating pressure which shall include an allowance for variations in the normal operating pressure which can be expected to occur will be indicated on the air cooler specification sheet fin fan air cooler rev web pdf pdf scribd - Oct 06 2022

web cooled heat exchanger provides a means of transferring the heat from the fluid or gas into ambient air without environmental concerns or without great ongoing cost such as water supply and treatment a fin fan is a type of heat exchanger that forces air over a set of coils to cool the process

kolmetz handbook of process equipment design - Aug 16 2023

web a fin fan is a type of heat exchanger that forces air over a set of coils to cool the process it is also referred to as an air cooled heat exchanger fin fan heat exchangers are generally used where a process system generates heat which must be removed but for which there is no local use in fin fan heat exchanger air is forced in cross flow

# induced draft cooling tower and air cooled heat exchanger - Jul 15 2023

web fan the most common industrial cooling fan failure modes typically involve gearboxes or fan blades and are catastrophic in nature in many cases this type of failure leaves the gearbox and or fan blades lying in the cooling water pond at the bottom of the tower or above a heat exchanger 1

#### fin fan coolers powerserv - Jan 09 2023

web air cooled heat exchangers in short air fin or fin fan coolers are used in any application where large quantities of heat need to be transferred this includes chemical and petrochemical industries power stations geothermal fin fan cooler datasheet archives cooling tower india - Feb 27 2022

web the air cooled heat exchangers are also known as fin fan coolers fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer

# overview of air cooled heat exchangers with pdf - May 13 2023

web the main function of the air cooled heat exchanger is the direct cooling of various process mediums by atmospheric air these heat exchangers are also known as air fin fan coolers or air fin coolers or air coolers or fin tube heat exchangers cooling fan farnell - Mar 31 2022

web frame size 36 36 36mm 03 38 38mm 04 40 40mm 05 52 52mm 06 60 60mm 08 80 80mm 09 92 92mm 12 120 120mm 13 127 127mm 14 140 140mm 15 150 150mm 17  $\phi$ 172mm 47  $\phi$ 172mm 147mm sidecut 57  $\phi$ 172mm 150mm sidecut 20  $\phi$ 200mm voltage 05 5v 12 12v 24 24v 48 48v etc speed code

# fin fan cleaning and heat exchanger cleaning chemicals - Dec 28 2021

web cleaning your air cooled heat exchanger with jpx f is better for the equipment and personnel the gentle yet effective foaming action clears away dirt and debris effectively without damaging equipment your fin fans and heat exchangers will run at optimum levels and return to their peak performance once again

 $\textit{fin fan cooler motor pdf electric motor machines scribd} \text{-} \text{Jun } 02\ 2022$ 

web data sheet electramo nv electric motor type 1rp180l 10 7 5kw 579rpm 400v 690v 50hz

# supplementary specification to api standard 661 air cooled heat - Nov 07 2022

web iogp s 710d data sheet for air cooled heat exchangers the data sheet defines application specific requirements attributes and options specified by the purchaser for the supply of equipment to the technical specification

# fin fan cooler united cooling tower - Aug 04 2022

web dec 22 2017 fin fan cooler is nothing but traditional name of air cooled heat exchanger since fins are used in the cooler it is called as fin fan cooler please refer air cooled heat exchanger for all the details in the fin fan coolers the ambient air used as the cooling media to cool the main hot fluid which used in tube side

# guidelines manage fin fan cooler for process industry in an - Jan 29 2022

web sep 9 2018 issue 2 many time we see the performance of the fin fan cooler is not as ok and unable to maintain the proper cooling it is because of the many reason e g fouling of the tubes inside of the

# thebasicsof air cooledheatexchangers chart industries - Apr 12 2023

web life of the cooler this is the preferred tube for operating temperatures up to 600 f the embedded fin also affords a continued predictable heat transfer and should be used for all coolers operating above 600 f and below 750 f the wrap on footed fin tube can be used below 250 f however the bond between the fin

#### fin fan cooler energyen - Dec 08 2022

web introduction fin fan cooler is a kind of heat exchanger that uses the air for cooling medium it is required a wide surface area for heat transfer it is applied to finned tube for increasing the heat transfer surface and compact design of construction

area and the process fluid can be cooled by the natural air it is not required a coolant

# hudson fin fan air cooled heat exchangers large fan - Mar 11 2023

web our large fan field erected units are available in bay sizes up to 70 feet by 54 feet and fan diameters up to 36 feet our modular design and construction expertise allows for fast and dependable field erection benefits of the large fan design include air cooled heat exchanger air heat exchanger heat exchanger

# air cooled heat exchangers individual solutions kelvion - Jun 14 2023

web the air cooler bank essentially consists of finned tube bundles fan rings axial fans with suitable drive units and a supporting structure it can be equipped individually with maintenance platforms louvers and other equipment as requested by the customer

air cooled heat exchangers chart industries - Feb 10 2023

web fin fan air cooled heat exchangers life cycle costs download high torque drive h t d download hot air recirculation by air coolers download improve fin fan performance download improving cooling tower fan system download minimizing fan energy costs parts 1 and 2 download noise control air cooled heat exchangers

cooling technology institute chart industries - Jul 03 2022

web disposal to get more out of what you have without the need for brand new air coolers this fan is located below the process bundle and air is forced through the fin tubes induced draft fan is located above the process bundle and air is induced or pulled with the data sheet paper and pen in hand head out and do a detailed visual