



SMP LUQMAN AL HAKIM

HIDAYATULLAH ISLAMIC BOARDING SCHOOL OF SURABAYA
ACADEMIC YEAR OF 2011 – 1012

FINAL EXAMINATION

Name :	Subject : Physics
Grade/Class : VIII/PC	Time : 90 minutes
Date :	Score :

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

In the Name of ALLAH, Most Gracious, Most Merciful

A. Berilah tanda silang [X] pada pilihan jawaban yang tepat! ($g = 10 \text{ m/s}^2$)

- The meaning of energy is the ability to conduct...
 - force
 - movement
 - work
 - speed
- The object which is considered as the main source of energy for the living creatures on Earth is...
 - the moon
 - the sun
 - the food
 - the water
- In Physics, the term 'work' means...
 - the product of force and displacement in direction of the force
 - the sum of force and displacement in direction of the force
 - the ratio of force and displacement in direction of the force
 - the subtraction of force and displacement in direction of the force
- The unit of work in SI is...
 - Newton
 - Pascal
 - Watt
 - Joule
- When some forces applied to a body, but it didn't move, then the work (W) equals to...
 - 2
 - 1
 - 0
 - 1
- The meaning of potential energy (E_p) is the energy of an object due to its...
 - position
 - motion
 - color
 - shape
- The potential energy of a body depends on...
 - volume
 - color
 - speed
 - height
- The meaning of kinetic energy (E_k) is the energy of an object due to its...
 - position
 - motion
 - color
 - shape
- The kinetic energy of a body depends on...
 - volume
 - color
 - height
 - speed
- "In all energy transformation processes, the total
- The correct relation between the device and its energy transformation is...
 - candle, chemical energy into sound
 - radio, electrical energy into light
 - motor, electrical energy into motion
 - battery, chemical energy into heat
- The electrical power plant which is not use kinetic energy is..... power plant.
 - solar-cell
 - geothermal
 - nuclear
 - water
- The followings are the good daily behaviours to save energy, *except*...
 - turn-off the unused light
 - eat the nutritious foods only
 - if it's possible, go to school on foot or by bicycle
 - never put the hot foods/drinks into the refrigerator
- The example of renewable source of energy is...
 - petroleum
 - diesel oil
 - natural gas
 - jatropha oil
- The followings are the energy which are enormously available, *except*...
 - electrical energy
 - solar energy
 - wind energy
 - geothermal energy
- The following statements are the reason of why energy conservation is urgent issue:
 - The lack of fossil-based fuel.
 - The animals wildlife are endangered.
 - The needs of energy is extremely increasing.
 - The high cost of crude oil in international market.The *incorrect* statement is...
 - 1
 - 2
 - 3
 - 4
- The speed in conducting work is called...
 - machine
 - force
 - power
 - energy
- The unit of power in SI is...
 - Joule
 - Pascal

Grade Physics Final Exam Paper 2014

LM Reder



Grade Physics Final Exam Paper 2014:

Embark on a transformative journey with Written by is captivating work, Discover the Magic in **Grade Physics Final Exam Paper 2014** . This enlightening ebook, available for download in a convenient PDF format , invites you to explore a world of boundless knowledge. Unleash your intellectual curiosity and discover the power of words as you dive into this riveting creation. Download now and elevate your reading experience to new heights .

<https://staging.conocer.cide.edu/results/Resources/Documents/Engineering%20Circuit%20Analysis%20By%20Hayt%208e%20Solution.pdf>

Table of Contents Grade Physics Final Exam Paper 2014

1. Understanding the eBook Grade Physics Final Exam Paper 2014
 - The Rise of Digital Reading Grade Physics Final Exam Paper 2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade Physics Final Exam Paper 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 Grade Physics Final Exam Paper 2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade Physics Final Exam Paper 2014
 - Personalized Recommendations
 - Grade Physics Final Exam Paper 2014 User Reviews and Ratings
 - Grade Physics Final Exam Paper 2014 and Bestseller Lists
5. Accessing Grade Physics Final Exam Paper 2014 Free and Paid eBooks
 - Grade Physics Final Exam Paper 2014 Public Domain eBooks
 - Grade Physics Final Exam Paper 2014 eBook Subscription Services

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

Grade Physics Final Exam Paper 2014 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 Grade Physics Final Exam Paper 2014 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 Grade Physics Final Exam Paper 2014 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 Grade Physics Final Exam Paper 2014 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 Grade Physics Final Exam Paper 2014. 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 Grade Physics Final Exam Paper 2014 any PDF files. With these platforms, the world of PDF downloads is just a click away.

FAQs About Grade Physics Final Exam Paper 2014 Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Grade Physics Final Exam Paper 2014 is one of the best book in our library for free trial. We provide copy of Grade Physics Final Exam Paper 2014 in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Grade Physics Final Exam Paper 2014. Where to download Grade Physics Final Exam Paper 2014 online for free? Are you looking for Grade Physics Final Exam Paper 2014 PDF? This is definitely going to save you time and cash in something you should think about.

Find Grade Physics Final Exam Paper 2014 :

~~engineering circuit analysis by hayt 8e solution~~

~~engineering circuit analysis 7 ed solution manual~~

engine manual mercedes vito

engineering mathematics november 2014 questionm

engineering economy 14th edition solution manual

engineering statistics douglas c montgomery solution manual

[engineering science n2 final exam paper 2013](#)

engineering electromagnetics solution manual willim hyat

engineering n3 exam papers

engineering drawing question paper june 23

engine manual victa lawn mower

english csec past papers

engineering economy 7th edition solutions chapter 4

engineering problem solving with c etter 3rd

english and russian traveler phrases with plr

Grade Physics Final Exam Paper 2014 :

b com syllabus subjects 2023 semester wise collegedekho - Oct 24 2021

b com notes cbcs and non cbcs b com notes for all - Jul 01 2022

web bcom notes 2018 all six semester note bcom notes bcom is one of the full time undergraduate students at the university of karnataka usually take 12 subjects each year

b com general notes ebooks pdf download - Mar 29 2022

web 15 03 2022 by studynotes advertisement bangalore university bcom previous year question papers download the bangalore university bcom sixth semester previous

auditing notes for students of bcom 6th sem - Feb 08 2023

web bcom sixth semester sem notes year of 2015 syllabus notes bcom sixth semester notes b com is very good degree to know commerce and business with

bcom notes 2018 all six semester notes cakart - Dec 26 2021

b com three year 6 semester cbcs programme ugc - Jan 27 2022

bcom sixth semester sem notes year of 2015 syllabus notes - Aug 02 2022

web three year 6 semester cbcs programme programme structure course no course title course type semester i bc 1 1 environmental studies ability enhancement

bcom notes pdf syllabus study material 2021 geektonight - Mar 09 2023

web b com sixth semester have five common subject those are taxation law cost accounting accounting for management and financial market operations five optional subjects are

bcom vi sem creativity innovation mcqs studocu - Apr 29 2022

web 2 days ago the 3 years of the bcom syllabus is split into 6 semesters the bcom syllabus includes a variety of core subjects as well as elective topics environmental

b com books notes for all 6 semesters - Dec 06 2022

web oct 16 2018 bangalore university sixth sem b com study material notes pdf b com 6th semester b com study materials by bustudymate on oct 16 2018 last

bangalore central university bcom 6th sem notes - Nov 05 2022

web who is one of the most significant innovators and inventors in american history a thomas edison b steve jobs c albert d bill gates who found microsoft a thomas edison b

bangalore university sixth sem b com study material notes pdf - May 31 2022

web jun 11 2021 b com notes books for all semesters in pdf in hindi and english click here to download in this article we also provide complete details of b com syllabus

mumbai university bcom result 2023 declared for sem 6 - Aug 22 2021

b com notes books for all semesters in pdf latestnews 24 - Nov 24 2021

b com notes for all subjects pdf download best - Jul 13 2023

web bangalore university and bangalore north university bcom 6th sem study materials chaloexam syllabus 6 1 business regulations objective to introduce the

bcom sixth semester subjects complete details cakart - Sep 03 2022

web jun 28 2023 if you are a student of b com you can take the help of this article to get bcom books pdf free download for all the semesters along with important notes read

bcom 6 auditing lecture notes all notes class - May 11 2023

web feb 27 2022 fundamentals of investment notes important question b com prog b com hons 6th semester notes in this video we will learn some important question for fundamentals of

banking and insurance notes pdf syllabus bcom - Oct 04 2022

web may 18 2023 classes 6 8 news notes classes 9 10 news notes classes 11 12 news notes graduation engineering news b com 4th semester all subjects pdf

bangalore university and bangalore north university - Apr 10 2023

web download free bcom 6th sem module wise notes latest solved question papers previous 5 years question paper till 2021
model question papers easy notes exam oriented

fundamentals of investment notes important question youtube - Jan 07 2023

web notes for b com 1st sem to 6th sem is now available in our mobile application download here some notes are uploaded on our website link of which is given below b com 1st

bcom 6th final semester all subjects pdf notes books ebooks - Aug 14 2023

web mar 23 2023 1 hi b com 6th final semester students on this thread we have listed the complete collection of notes and ebooks for all the subjects in sixth final semester of

b com books pdf subject wise free pdf download careers360 - Feb 25 2022

web 1 day ago mumbai university ty semester 6 result 2023 has been declared students can check their bcom online at the official websites mum ac in and mumresults in get

bcom sixth semester previous question paper studynotes - Sep 22 2021

b com books notes free download pdf 1st 2nd - Jun 12 2023

web apr 5 2022 5 april 2022 bba study material bcom study material 12 mins read download management information system notes pdf books syllabus for b com

bring him home sheet music musicnotes com - Jul 14 2023

web browse our 47 arrangements of bring him home sheet music is available for piano voice guitar and 37 others with 19 scorings and 3 notations in 12 genres find your perfect arrangement and access a variety of transpositions so you can print and play instantly anywhere lyrics begin god on high hear my prayer

bring him home sheet music for piano solo musescore com - Jun 13 2023

web mar 28 2020 download and print in pdf or midi free sheet music for bring him home by les misérables arranged by callum friel for piano solo

free bring him home by les misérables sheet music download - Aug 15 2023

web free bring him home by les misérables sheet music download pdf or print on musescore com time for summer time for music 90 off 02d 22h 25 38s view offer

bring him home piano tutorial les miserables onlinepianist - Nov 06 2022

web learn how to play bring him home by les miserables on piano with onlinepianist a one of a kind animated piano tutorial application

bring him home from les misérables sheet music easy piano - Feb 09 2023

web print and download sheet music for bring him home from les misérables sheet music arranged for easy piano in f major transposable sku mn0104598

bring him home from les misérables the piano guys - Apr 11 2023

web aug 10 2011 get our albums smarturl it tpg albums we re on tour smarturl it tpgtour tpg apparel smarturl it tpgapparel download tpg songs

bring him home from les miserables by the piano guys - May 12 2023

web aug 17 2021 download and print in pdf or midi free sheet music for bring him home from les miserables by alain boublil and claude michel schönberg arranged by fsgregs for piano cello piano duo

bring him home from les misérables sheet music in a major - Dec 07 2022

web print and download bring him home sheet music from les misérables sheet music arranged for piano vocal guitar and singer pro in a major transposable

bring him home youtube - Feb 26 2022

web mar 9 2015 provided to youtube by masterworks bring him home the piano guys claude michel schönberg the piano guys 2012 tpg productions llc released on 2013 01 18 cello arranger producer

bring him home from les miserables sheet music for piano - Mar 10 2023

web aug 23 2021 arrangement format piano solo roles les miserables musical artist alain boublil composer claude michel schonberg composer alain boublil writer claude michel schonberg writer les miserables musical

colm wilkinson bring him home sheet music in a major - Aug 03 2022

web print and download bring him home sheet music by colm wilkinson sheet music arranged for piano vocal guitar in a major transposable sku mn0104312

bring him home karaoke piano accompaniment les misérables - Oct 05 2022

web sep 7 2015 piano accompaniment of bring him home a song from the musical les misérables by claude michel schönberg what can you find on pianissim s youtube channel

bring him home from les misérables sheet music piano solo - Jan 08 2023

web print and download bring him home sheet music from les misérables arranged for piano instrumental solo in f major sku mn0111243

bring him home virtuosic piano solo cover sheet music - Apr 30 2022

web bring him home virtuosic piano solo cover sheet music youtube liszt has been an enormous influence on my arranging since the very beginning in this next piece in the reimagined

bring him home les miserables piano youtube - Jul 02 2022

web apr 18 2011 bring him home les miserables piano youtube 0 00 3 53 bring him home les miserables piano calikokat104 4 61k subscribers subscribe 760 139k views 12 years ago disclosure i may

neil archer bring him home sheet music piano solo in a - Sep 04 2022

web print and download bring him home sheet music by neil archer arranged for piano instrumental solo in a major sku mn0263857

les miserables bring him home free downloadable sheet music - Mar 30 2022

web les misérables colloquially known as les mis or les miz is a musical composed in 1980 by the french composer claud michel schönberg with a libretto by alain boublil sung through it is perhaps the most famous of all french musicals and one of the most performed musicals worldwide

bring him home claud michel schönberg from les misérables - Jun 01 2022

web download and print in pdf or midi free sheet music for bring him home by les misérables arranged by virucide for recorder solo browse learn start free trial upload log in time for summer time for music 90 off 05 d 04 h 15 m 07 s voice other piano uploaded on dec 05 2020

bring him home sheet music pdf download sheetmusicmu com - Dec 27 2021

web sep 13 2023 bring him home piano solo piano solo intermediate bring him home for alto sax and piano alto saxophone baritone saxophone piano duet piano accompaniment intermediate bring me home again an original hymn choir advanced bring him home brass ensemble intermediate bring him home for viola and

bring him home sheet music the piano guys smf - Jan 28 2022

web lyrics bring him home the piano guys bring him home instrumental from les misérables highlights from the motion picture soundtrack soundtrack god on high hear my prayer in my need you have always been there he is young he s afraid let him rest

chemical reactions video tutorial practice channels for pearson - Feb 15 2023

web learn chemical reactions with free step by step video explanations and practice problems by experienced tutors

describing chemical reactions answer key guided practice - Jul 08 2022

web describing chemical reactions answer key guided practice ilts science chemistry 240 secrets study are trademarks in the u s and or other countries of pearson education inc or its affiliate s this product was developed by mometrix concerned with the rates of chemical reactions in the solution phase stationery trades journal

8 hands on experiments to teach kids about chemical reactions - Mar 04 2022

web observing the formation of a gas how a chemical reaction can produce heat the formation of a solid the occurrence of a

color change the elephant toothpaste experiment hot ice mentos and coke experiment separate a mixture one note before i move on to the activities

solutions video tutorial practice channels for pearson - Apr 17 2023

web 60 multiple choice how many ml of 5.0 M nitric acid HNO_3 are required to make 1.00 L of a 0.00100 M solution of HNO_3 approximately the concentration of acid in acid rain 76.1 learn solutions with free step by step video explanations and practice problems by experienced tutors

chemical reactions definition equations types examples - Oct 11 2022

web chemical reactions a chemical reaction is in which the bonds are broken within reactant molecules and new bonds are formed within product molecules in order to form a new substance chemical reactions are all around us chemical reactions are continually taking place on our planet to learn definition equations types examples with faqs of

balancing chemical equations video tutorial practice pearson - Jan 14 2023

web write the balanced chemical equation for each reaction b solid iron(III) oxide reacts with hydrogen gas to f write the balanced chemical equation for each reaction a solid copper reacts with solid sulfur to form solid write the balanced chemical equation for the reaction of aqueous potassium hydroxide with aqueous iron(III) chloride

pearson chemistry 9780132525763 solutions and answers quizlet - Oct 23 2023

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

11.1 describing chemical reactions answers pearson pdf cie - Jun 07 2022

web nov 6 2023 11.1 describing chemical reactions answers pearson science matters 2002 focus on physical science california edition michael j padilla 2007 chemistry 2e paul flowers 2019 02 14 chemistry 2e is designed to meet the scope and sequence requirements of the two semester general chemistry course the textbook provides an

chemical reaction definition equations examples types - Dec 13 2022

web oct 15 2023 chemical reaction a process in which one or more substances the reactants are converted to one or more different substances the products substances are either chemical elements or compounds a chemical reaction rearranges the constituent atoms of the reactants to create different substances as products

ebook pearson education chemistry describing chemical reactions answers - Apr 05 2022

web pearson education chemistry describing chemical reactions answers the chemical bond nov 30 2021 this is the perfect complement to chemical bonding across the periodic table by the same editors who are two of the top scientists working on this topic each with extensive experience and important connections within the community

chemical equation or formula questions pearsoncmg com - Nov 12 2022

web oct 18 2023 open these instructions as you answer questions enter chemical equation formula or expression answers characters you can or cannot use move within or edit your chemical equation answers stop entering special format values such as for a subscript in your answer comma to separate a series of chemical expressions no spaces

what is a chemical reaction 11 14 years rsc education - Aug 09 2022

web explore the key idea that chemical reactions produce one or more new substances while conserving matter in this lesson plan with activities for 11 14 year olds in this activity a diagnostic probe and a simple practical introduce students to the idea that a chemical reaction produces one or more new substances with no loss of material

chemistry reading and study workbook 1st edition quizlet - Sep 22 2023

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

chemical reactions channels for pearson - Mar 16 2023

web in this video we re going to begin our lesson on chemical reactions and so chemical reactions consists of the making and or breaking of chemical bonds leading to changes in matter and every single chemical reaction has reactants and products now reactants are going to be the starting material in a chemical reaction

types of chemical reactions video tutorial practice pearson - May 18 2023

web worksheet chemical reaction chemical change 5m law of conservation of mass 3m balancing chemical equations simplified 9m solubility rules 11m molecular equations 18m types of chemical reactions 8m complete ionic equations 12m

types of chemical reactions quiz britannica - Sep 10 2022

web answer chemical kinetics is the branch of physical chemistry that is concerned with understanding the rates of chemical reactions it is to be contrasted with thermodynamics which deals with the direction in which a process occurs but in

describing chemical reactions answer key guided practice - Jul 20 2023

web describing chemical reactions answer key guided practice chemistry neil d jespersen 2021 11 02 chemistry the molecular nature of matter 8th edition continues to focus on the intimate relationship between structure at the atomic molecular level and the observable macroscopic properties of matter

pearson chemistry chapter 7 chemical reactions quizlet - Jun 19 2023

web show the substances involved in a chemical reaction both the substances reactants products reactants products law of conservation of mass states when a chemical reaction occurs the mass of the products should be equal to the mass of the reactants

science quiz chemistry chemical reactions ducksters - May 06 2022

web 10 question quiz for webquest or practice print a copy of this quiz at the chemistry chemical reactions webquest print page about this quiz all the questions on this quiz are based on information that can be found at chemistry chemical reactions kids take a quiz on chemistry chemical reactions practice science problems online test and

igsce chemistry answers pearson - Aug 21 2023

web chapter 1 1 a meltingbfreezing c subliming sublimationdsubliming sublimation 2 a solid liquid gas note solids should have regularly packed particles touching liquids should have most of the particles touching at least some of their neighbours but with gaps here and there and no regularity gases should have the particles well spaced