

## Chemistry 2<sup>nd</sup> Semester Final Exam Review

### Chemical Bonds

1. Give a physical description of how the atoms and molecules are arranged in solids, liquids, and gases.  
*A: In a liquid, the forces between the molecules are weak, so the molecules are free to move around. In a solid the forces between the molecules (intermolecular forces) are stronger so they are held in place.*
2. Use the information from the previous question to describe the shape and volume for each phase (state) of matter.  
*A: Solids have a repeating geometric pattern (lattice structure) in which the particles vibrate in place. They have a definite shape and a definite volume.  
Particles within a liquid slide past each and are close, but are not held in place. They have a definite volume, but no definite shape.  
Gases particles move chaotically bouncing off one another. They have neither a definite shape nor a definite volume.*
3. List the three phases of matter in order of increasing intermolecular attractions.  
*A: Gas, liquid, solid.*
4. Why do the atoms and molecules in liquids move in a random pattern relative to one another instead of being in a solid form?  
*A: Their kinetic energy (temperature) is high enough to overcome the attractive forces that might otherwise hold them in a repeating pattern. The attractive forces aren't strong enough to hold them together at that temperature.*

### Conservation of Matter and Stoichiometry

5. The atomic mass unit and the mole are defined using what isotope? *A: Carbon-12*
6. Balance the following equations:
  - a.  $\text{Al}_2\text{O}_3 + \text{Cl}_2 + \text{C} \rightarrow \text{AlCl}_3 + \text{CO}$   
*A:  $\text{Al}_2\text{O}_3 + 3\text{Cl}_2 + 3\text{C} \rightarrow 2\text{AlCl}_3 + 3\text{CO}$*
  - b.  $\text{C}_4\text{H}_{10} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$   
*A:  $2\text{C}_4\text{H}_{10} + 13\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$*
  - c.  $\text{P} + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$   
*A:  $4\text{P} + 5\text{O}_2 \rightarrow 2\text{P}_2\text{O}_5$*
7. What isotope is used to define one mole? *A: Carbon-12*
8. How many particles (atoms or molecules) are in one mole? *A:  $6.02 \times 10^{23}$*
9. Find the molar mass for the following chemical formulas:
  - a.  $\text{ZnF}_2$  *A: 103.377 g/mol*
  - b.  $\text{Al}_2(\text{SO}_4)_3$  *A: 342.151 g/mol*
  - c.  $\text{NH}_4\text{IO}_3$  *A: 192.941 g/mol*
10. How many moles are in 4.37 kg of NaOH? *A: 109.3 mol*
11. How many atoms are in 2075 g of He? *A:  $3.12 \times 10^{26}$  atoms*
12. What volume will 92.31 g of  $\text{CO}_2$  occupy at STP? *A: 46.985 L*
13. How many grams of sodium hydroxide are needed to react with 6.23 g of barium bromide?  
 $\text{NaOH} + \text{BaBr}_2 \rightarrow \text{NaBr} + \text{Ba}(\text{OH})_2$   
*A: 1.68 g NaOH*
14. In the reaction,  $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$ , if 100.0 g of magnesium reacts with 50.0 g of oxygen, what mass of product is produced?  
*A: 126 g MgO*

### Gases and Their Properties

15. What is the kinetic molecular theory (KMT)?  
*A: The Kinetic Molecular Theory is used to explain the behavior of gases and is based upon the following postulates:*
  - Gases are composed of a many particles that behave like hard spherical objects in a state of constant, random motion.
  - These particles move in a straight line until they collide with another particle or the walls of the container.
  - These particles are much smaller than the distance between particles, therefore the volume of a gas is mostly empty space and the volume of the gas molecule themselves is negligible.
  - There is no force of attraction between gas particles or between the particles and the walls of the container.
  - Collisions between gas particles or collisions with the walls of the container are elastic. That is, none of the energy of the gas particle is lost in a collision.

# Nd Semester Final Chemistry High School

**L Reisser**



## **Nd Semester Final Chemistry High School:**

**Listening to Our Students and Transcending K-12 to Save Our Nation** Alec Ostrom, Brian Hack, Don Prentice, 2020-01-06 This journey will engage you in dealing with some hard truths and it will take you down a new pathway and new ways of thinking about K 12 education We now live in a nation that is struggling with deep social economic and political conflicts We are all doing our best to resolve these conflicts and to solve the critical challenges that we all face in the Digital Age but our children and young adults are having a very difficult time in dealing with the realities of their young lives We wrote this book because we want to engage all of our readers in each local community in frank honest down to earth practical conversations about our K 12 schools as the foundation for our constitutional democracy Without well educated citizens our government our economy and our society will not survive And this is true regardless of the political beliefs of our readers across the political spectrum

**Handbook of College Science Teaching** Joel J. Mintzes, 2006 The Handbook offers models of teaching and learning that go beyond the typical lecture laboratory format and provides rationales for new practices in the college classroom It is ideal for graduate teaching assistants senior faculty and graduate coordinators and mid career professors in search of reinvigoration

**Research in Education** ,1969-05     *Research in the Teaching of Science* ,1962     **Resources in Education** ,1969-07     New York School Journal ,1898     *The Chemical News and Journal of Physical Science* ,1883     *The Spectator* ,1894     **Oxford University Gazette** University of Oxford,1882     Education Outlook ,1894     **Studies in Articulation of High School and College** Henry Christopher Mills, Mazie Earle Wagner, Mary Elizabeth Sarbaugh, Ruth Elizabeth Eckert, 1934     **THE EDUCATIONAL TIMES, AND JOURNAL OF THE COLLEGE PRECEPTORS.** c.f hodgson and sons, 2, Gough square, 1880     **The Journal of Education** ,1893     **The Saturday Review of Politics, Literature, Science and Art** ,1890     **Appendix to the Journals of the House of Representatives of New Zealand** New Zealand. Parliament. House of Representatives, 1894     Journal of Education and School World ,1889     Chemical News and Journal of Industrial Science ,1883     Chemical News and Journal of Physical Science ,1883     **Proceedings of the Annual Session** Iowa State Education Association, 1895     **California Quarterly of Secondary Education** ,1942

## **Nd Semester Final Chemistry High School** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Nd Semester Final Chemistry High School**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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web describe life cycles including growth and metamorphosis of familiar organisms describe how living things are supported by the environment yet are diverse and interdependent describe ways humans impact air water and habitat quality describe how fossils provide evidence of change

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web mar 6 2023 to kick off this unit students will study plant and animal life cycles and how they all have similar characteristics birth growth reproduction death use the mini books to teach your students about the similarities between all animal life cycles and all plant life cycles create a spinning wheel to study the life cycle of an apple and a frog

grade 3 model science unit 5 continuing the cycle chester - Mar 10 2023

web in third grade students learn that the changes an organism goes through during its life form an observable pattern although different types of organisms have unique and diverse life cycles they follow a pattern of birth growth reproduction and death

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web grade 3 science life science life cycles life cycles animals and plants learn the different stages of life cycles in plants and animals pay what you can drag and drop the stages into the correct sequence instructions 1 look at the name given for each stage 2 drag and drop the picture that corresponds to that stage

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web sep 3 2019 3rd grade life science plants unit developed for chapel hill carrboro city schools northside elementary school outdoor wonder learning owl initiative unless otherwise noted activities written by lauren greene sarah yelton dana haine toni stadelman center for public engagement with science unc institute for the environment

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web this life cycles lesson plan also includes rubric join to access all included materials third graders work in cooperative groups to gather information create their product and present to an audience the groups use all sources of media to gather information including electronic encyclopedias and the internet they use appleworks claris draw

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dispersion model and show what they know by designing and creating a super plant that can

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web this is an entire learning unit for the beginning of 3rd grade that covers life cycles and inherited non inherited traits

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web during its life cycle an organism goes through physical changes that allow it to reach adulthood and produce new organisms since these changes are common within a species they can be grouped into stages of development the unit life cycles addresses the life cycles of plants and animals including humans

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web apr 7 2019 this life cycles and traits unit was my first attempt at creating a whole unit of learning it correlates to the next generation science standards 3 ls1 1 3 ls3 1 and 3 ls3 2 looking back on it now i see lessons i already want to improve but for now you can find the unit for free by clicking on the link below

**3rd grade life cycles growth and development of organisms tpt** - Dec 07 2022

web 3rd grade life cycles growth and development of organisms ngss aligned this comprehensive science unit offers an in depth exploration of the life cycles of plants animals and insects through 10 engaging lessons complete with powerpoint presentations detailed lesson plans and hands on activities

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web lesson plan life cycle by nichole hughes and darby feldwinn target grade 3rd teacher prep time 60 minutes lesson time 4 hours and 5 minutes not including the life cycle journal we recommend doing this lesson over five days 5 hours and 20 minutes life cycle journal this must be spread out over eight weeks recording data twice a

**life cycles of plants and animals science stations for third grade** - Jun 13 2023

web an in depth look at the plant and animal life cycle science stations below is information and details about each of the plant and animal life cycle science stations which address ngss 3 ls1 b and include concepts such as animal life cycles plant life cycles and parts of

*ngss 3rd grade life cycles traits and inheritance unit tpt* - Jul 02 2022

web this bundle includes all 4 units for third grade you will find resources for input inquiry charts observation charts big book ppt and printable pictorial and comparative input chart templates 16 total sociality continental drift geologic time scale natural selection adaptation ecosystem dynamics forces o

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web may 23 2010 a 3rd grade thematic unit on the life cycle of plants will help them to observe and understand their environment in a better way read on to learn more students in elementary classes like to observe their environment

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web life cycles and traits 3 ls1 1 plant and animal life cycles develop models to describe that organisms have unique and diverse life cycles but all have in common birth growth reproduction and death 3 ls3 1 inheritance and variation of traits

timeline of life cycle stages third 3rd grade science standards - Feb 26 2022

web dec 26 2014 create a timeline to depict the changes that occur during an organism s life cycle 0307 4 2 links verified

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web life cycle of plants and animals 5e unit plan for third grade 9 90 this life cycle of plants and life cycle of animals 5e unit plan is an inquiry based unit using the 5e model lesson plan it focuses on investigating life cycles and developing models to describe the unique and diverse life cycle of organisms