

Chemistry Teacher Job Interview Questions And Answers



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Chemistry Teacher Interview Questions And Answers Guide.

Question - 1:

Tell me what is mole?

Ans:

Mole is the unit used to define the number of chemical substance present in a substance. It is the amount of substance which consists of the same number of chemical units as there are atoms in exactly 12 gram of pure carbon-12.

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Question - 2:

Explain what is Valency?

Ans:

A valency is a property of a groups or atoms, equal to the number of atoms of hydrogen that the group or atom could combine with or displace it in forming compounds.

[View All Answers](#)

Question - 3:

Explain me what qualities do you look for in a principal?

Ans:

This kind of question is made in order to ask your opinion about a successful principal and which qualities that a teacher and a principal must have. Having a vision and a clear goal, planning and motivating, communicating and visibility, consistency and accountability, caring, nurturing and developing staff and students are the qualities which must be concentrated on.

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Question - 4:

Do you know what makes a molecule into organic molecule?

Ans:

In a molecule when hydrogen atom is less than the ratio of carbon atom, then such molecules are referred as an organic molecule.

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Question - 5:

Tell me what are your personal and professional goals?

Ans:

Teachers who are also learners themselves are being looked for by many schools. Show your goals that deal with self- improvement in the teaching skills and the profit which the students, the school and the community can get. Think twice before entering an interview so you can present your goals easily and fluently when being asked.

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Question - 6:

Tell me of which alloy the commonly used safety fuse-wire is made?

Ans:

Alloy of Tin and Lead

[View All Answers](#)

Question - 7:

Tell me why graphite rod is used in nuclear reactor?

Ans:



Graphite rod is used in nuclear reactor to convert fast moving neutrons into thermal neutrons.

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Question - 8:

Tell us ethanol containing 5% water By which name is it known?

Ans:

Rectified spirit

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Question - 9:

Explain what is the difference between Molarity and Normality?

Ans:

Both techniques are used to the amount of chemical present in the solution. However they are almost similar but differs in Molarity:

* Molarity is used to know the total amount of molecules in a 1 litre solution

* It is expressed as moles of a compound per litre of solution

Normality:

* Normality is used to know the total number of reactive units in 1 litre of solution

* It is expressed in equivalent per litre

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Question - 10:

Tell me what do we call the process of separation of pure water from impurities?

Ans:

Distillation

[View All Answers](#)

Question - 11:

Tell me how would you describe (needed chemistry teacher or your) work style?

Ans:

My work style matching exactly what cashier job requires by: analyzing information and using logic to address work-related issues and problems, being honest and ethical, developing one's own ways of doing things, guiding oneself with little or no supervision, and depending on oneself to get things done, a willingness to take on responsibilities and challenges, being reliable, responsible, and dependable, and fulfilling obligations.

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Question - 12:

Tell me which is not an anaesthetic agent in surgical operations?

Ans:

Acetone

[View All Answers](#)

Question - 13:

Do you know with which liquid is anomalous expansion associated?

Ans:

Water

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Question - 14:

Explain me how do you evaluate the success of your teaching?

Ans:

There is no know-it-all teacher and everyone has to try to be better. According to the assessment, you can recognize which teaching skills are good and which need to be improved. Describe an example in which your lessons are reflected clearly and positives and negatives are stressed. Show the specific approaches of self-evaluation that you used. It is helpful for you to make successes and enhance if necessary. Some other useful approaches are the feedback about sessions from students.

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Question - 15:

Tell us what is buffer?

Ans:

A buffer is an aqueous solution which has highly stable pH. It is a blend of a weak acid and its conjugate base or vice versa. On adding small amount of base or acid to buffer, its pH hardly changes.

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**Question - 16:**

Tell me the pH of fresh milk is 6. When it turns sour, what will be the pH?

Ans:

Less than 6

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Question - 17:

Tell me what is alcohol obtained in the saponification process?

Ans:

Glycerol

[View All Answers](#)

Question - 18:

Explain me a lesson that went well?

Ans:

A lesson that goes well is one aligned to a critical learning target and which engages students in full participation to mastery of lesson objective. A: I taught a lesson on Mendelian principles of independent assortment and creating Punnett squares. The culminating project for the lesson was working in their learning teams to apply their knew knowledge to the Aussie Shepherd case study and create a poster to state their conclusion supported with evidence. During the gallery walk students assessed each other's posters and gave positive feedback. R: Students were fully engaged at all times and I could tell by the posters and the comments and questions that they had successfully applied the concepts to solve a real world problem.

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Question - 19:

Explain which is used to dilute oxygen in the gas cylinders used by divers?

Ans:

Helium

[View All Answers](#)

Question - 20:

Tell me sodium stearate is a salt and how is it used?

Ans:

To make soap

[View All Answers](#)

Question - 21:

Tell me what is oxidation and reduction reaction?

Ans:

* Oxidation = When there is a loss of hydrogen or electrons, OR gain of oxygen is known as Oxidation reaction.

* Reduction = When there is a gain of hydrogen or electron OR loss of oxygen is known as reduction reaction

Example of oxidation-reduction reaction is observed in human body, when an electron is transferred into the cell and oxidation of glucose take place from which we get the energy.

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Question - 22:

Tell me which antiseptic compound is present in Dettol?

Ans:

Chloroxylenol

[View All Answers](#)

Question - 23:

Tell us which are the two main constituents of granite?

Ans:

Iron and silica

[View All Answers](#)

Question - 24:

Do you know what is the percentage of Nitrogen, present in ammonium sulphate?

Ans:

21%

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Question - 25:



Tell me what is the name of gas which is present in both the natural gas and the biogas?

Ans:

Methane

[View All Answers](#)

Question - 26:

Tell me which method of water purification does not kill microorganism?

Ans:

Filtration

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Question - 27:

Tell me what is molality?

Ans:

Molality is the number of solute that is present in 1 kg of a solvent.

[View All Answers](#)

Question - 28:

Explain to which product of equivalent weight and valency of an element is equal?

Ans:

Atomic weight

[View All Answers](#)

Question - 29:

Tell me of which Container radioactive materials should be kept?

Ans:

Pb

[View All Answers](#)

Question - 30:

Do you know which gase is supporter of combustion?

Ans:

Oxygen

[View All Answers](#)

Question - 31:

Tell me how do you keep your subject up to date?

Ans:

Teachers have to maintain a constantly developing curriculum. In order to give the high quality instruction, you should express your willingness and competence to keep your subject district in line. A strong positive access between a teacher's preparation in their subject issue and their implementation and influence in the classroom is presented in research. Show specific examples of resources which you have to update and improve your subject knowledge such as agreeing with related publications, joining seminars and on-line research.

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Question - 32:

Competency Based Chemistry Teacher interview questions:

Ans:

- * How would you describe the experience of working here?
- * What was the most complex assignment you have had?
- * When given an important assignment, how do you approach it?
- * What were your annual goals at your most current employer?
- * How do you feel about taking no for an answer?

[View All Answers](#)

Question - 33:

Situational Chemistry Teacher interview questions:

Ans:

- * What do you think, would you be willing to travel for work?
- * What attracted you to this company?
- * Which subjects did you enjoy during your qualifying degree?
- * What do you think you can bring to this position?
- * What is the difference between a good position and an excellent one?



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Question - 34:

Video Based Chemistry Teacher interview questions:

Ans:

- * Situation in which you had to arrive at a compromise.
- * Give me an example that best describes your organizational skills.
- * How would you weigh a plane without scales?
- * What was the most difficult period in your life, and how did you deal with it?
- * How did you react when faced with constant time pressure?

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Question - 35:

Strengths and Weaknesses Based Chemistry Teacher interview questions:

Ans:

- * Your greatest weakness in school or at work?
- * Time when you made a suggestion to improve the work.
- * Tell me about a time when you successfully handled a situation?
- * How do you see your job relating to the overall goals?
- * What would be your ideal working environment?

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Question - 36:

Phone Based Chemistry Teacher interview questions:

Ans:

- * Tell me about yourself.
- * When were you most satisfied in your job?
- * What do you feel is the best educational preparation for this career?
- * How well did your college experience prepare you for this job?
- * What has been your biggest professional disappointment?

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Question - 37:

Behavioral Chemistry Teacher interview questions:

Ans:

- * Tell me about how you worked effectively under pressure.
- * Has anything ever irritated you about people you've worked with?
- * What kinds of situations do you find most stressful?
- * What kind of events cause you stress on the job?
- * What do you like and dislike about the job we are discussing?

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Question - 38:

Communication skills Based Chemistry Teacher interview questions:

Ans:

- * What have you done to support diversity in your unit?
- * Describe a time you were faced with stresses which tested your skills.
- * What major challenges and problems did you face?
- * What do you see yourself doing within the first days of this job?
- * What irritates you about other people?

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Question - 39:

Basic Chemistry Teacher interview questions:

Ans:

- * Have you done this kind of work before?
- * How long would you stay with our company?
- * What are you looking for in terms of career development?
- * Have you ever had to deal with conflicting deadlines?
- * Do you have any questions for me?

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Question - 40:

Tell me by which was the presence of Cobalt. in Vitamin B-12 established for the first time?

Ans:

Borax-Bead test



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Question - 41:

Tell me what do cathode rays cause when obstructed by metal?

Ans:

emission of X-rays

[View All Answers](#)

Question - 42:

Tell us your behavior policy?

Ans:

SUCCESS

1. Prepared to learn.
2. On task bell to bell.
3. Respect the speaker.
4. Ask and answer questions.
5. Follow class procedures.

I strive to use minor interventions and small consequences that I can administer consistently and fairly without hesitation before things escalate or get emotional. I assume the best and narrate the behavior I desire. I am a heavy user of positive corrections when my expectations are not met--"Class, I need your eyes on me and pencils down."

I correct individually and privately to get 100% compliance.

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Question - 43:

Please explain the abilities you have in order to work with us as chemistry teacher?

Ans:

I have the ability to communicate information and ideas in speaking so others will understand, apply general rules to specific problems to produce answers that make sense, combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events), listen to and understand information and ideas presented through spoken words and sentences, read and understand information and ideas presented in writing.

[View All Answers](#)

Question - 44:

Explain me how many millilitre is equal to 1 litre and how many microliter is equal to litre?

Ans:

- * 1 millilitre = 0.0001 litre
- * 1 microliter = 0.0000001 litre

[View All Answers](#)

Question - 45:

Do you know what is titration?

Ans:

Titration is a process to determine the molarity of a base or an acid. In this process a reaction is carried out between the known volumes of a solution with a known concentration, against the known volume of a solution with an unknown concentration.

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Question - 46:

Tell me which metal can deposit copper from copper sulphate solution?

Ans:

Iron

[View All Answers](#)

Question - 47:

Tell me which is the nuclear particle having no mass and no charge, but only spin?

Ans:

Neutrino

[View All Answers](#)

Question - 48:

Do you know how many elements are in the second period of the periodic table?

Ans:

Eight

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**Question - 49:**

Tell me how would you use assessment in your classroom?

Ans:

the best units and plans aligned to standards are for naught if I don't also assess student's progress toward mastery (task).

In assessing students, I use both formative and summative assessment procedures. The types of formative assessments I use entail gathering immediate data to check for understanding. For example, I might insert a short verbal quiz into the lesson or use thumbs up/down or an exit ticket to assess class mastery of a concept. I can quickly get an idea of who needs more help and have some students work on completing a problem set in the packet while I call others together to reteach or explain differently. Summative methods include graded quizzes, tests, culminating projects, and lab reports. Throughout the term I also grade and assess participation in discussions, group projects, and timeliness turning work in.

The goal of my assessment activities is to give students and myself data to measure their growth toward mastery of each learning objective. Students can take control of their learning and I can give a grade that accurately reflects what the student knows and is able to do.

[View All Answers](#)

Question - 50:

Please explain the knowledge elements you obtained from your education, training and work experience would support your chemistry teacher career?

Ans:

The Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods, principles and methods for curriculum and training design, teaching and instruction for individuals and groups, and the measurement of training effects, arithmetic, algebra, geometry, calculus, statistics, and their applications, the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar, Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, material, and atmospheric dynamics, and mechanical, electrical, atomic and sub- atomic structures and processes.

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Question - 51:

Tell me what is the chemical composition of fat in human body?

Ans:

Fat found in human body is mainly composed of

- * Glycerides
- * Glycerides+Phospholipids
- * Glycolipids
- * Phosphoinositides
- * Tocopherol

[View All Answers](#)

Question - 52:

Tell me how will you calculate how many moles of glucose present in 320 mL of 5.0 M of glucose solution?

Ans:

First step: Convert the volume from millilitres to litres

$$320 \text{ X } (1 \text{ litre}/1000\text{mL}) = 0.320 \text{ L solution}$$

Second use the formula = $M \times V$

$$= 5.0 \text{ moles glucose/ litre solution X } 0.320 \text{ L solution}$$

$$= 1.6 \text{ moles of glucose present in } 320\text{mL of solution}$$

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Question - 53:

Do you know on heating, Gypsum loses certain percentage of its water content and what does it become?

Ans:

Plaster of Paris

[View All Answers](#)

Question - 54:

Tell us how must have metals used to make wires for safety fuses?

Ans:

Low resistivity and low melting point

[View All Answers](#)

Question - 55:

Tell me what is a compound that is a white solid which absorbs water vapour from the air?

Ans:

Calcium chloride

[View All Answers](#)

Question - 56:

Explain me a little about yourself, your background as an instructor, and why a job at [] interests you.?



Ans:

I have made a career change to teaching after working 4 years as an organic chemist and 16 years in various business roles at research vendors. I decided to become a teacher after volunteering in an AP chemistry classroom. For two years I subbed per Diem and long term. My most recent job was teaching 10th chemistry and 7th grade science at ISB in Beaverton SD. I admire [blah blah] about [school] and that is the reason I want to teach here. My real world experience equips me to help your science students thrive under the new next generation science standards and CC.

[View All Answers](#)

Question - 57:

Tell us what will you do if a lesson doesn't work well?

Ans:

Sometimes things go out of the plan. Provide a specific instance in which a lesson did not run. Concentrate on analyzing what went wrong and what the weaknesses of the lessons were. Show the way you did to enhance the quality of the lessons such as making the content less complicated, utilizing useful resources, learning the experiences from other teachers and reconsidering your classroom management. You need to know that failures have occurred and you have ability and lucidity to resolve them.

[View All Answers](#)

Question - 58:

Tell me what are the main job duties and responsibilities of chemistry teacher employee?

Ans:

chemistry teacher responsibilities are to evaluate and grade students' class work, laboratory performance, assignments, and papers; maintain student attendance records, grades, and other required records; plan, evaluate, and revise curricula, course content, and course materials and methods of instruction; prepare course materials such as syllabi, homework assignments, and handouts; maintain regularly scheduled office hours to advise and assist students; compile, administer, and grade examinations, or assign this work to others; keep abreast of developments in the field by reading current literature, talking with colleagues, and participating in professional conferences; initiate, facilitate, and moderate classroom discussions; collaborate with colleagues to address teaching and research issues; advise students on academic and vocational curricula and on career issues; participate in campus and community events; establish, teach, and monitor students' compliance with safety rules for handling chemicals, equipment, and other hazardous materials; select, order, and maintain materials and supplies for teaching and research, such as textbooks, chemicals, and laboratory equipment; supervise students' laboratory work; serve on committees or in professional societies; prepare and deliver lectures to undergraduate or graduate students on topics such as organic chemistry, analytical chemistry, and chemical separation; participate in student recruitment, registration, and placement activities; serve on academic or administrative committees that deal with institutional policies, departmental matters, and academic issues; prepare and submit required reports related to instruction; act as advisers to student organizations; write grant proposals to procure external research funding; compile bibliographies of specialized materials for outside reading assignments; conduct research in a particular field of knowledge and publish findings in professional journals, books, or electronic media; supervise undergraduate or graduate teaching, internship, and research work; perform administrative duties such as serving as a department head; provide professional consulting services to government or industry.

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Question - 59:

Tell me what iron ore consists of?

Ans:

Iron ore consists of Fe_2O_3

[View All Answers](#)

Question - 60:

Tell me what metal is used to extract copper from the solution of copper sulphate?

Ans:

Fe or ferrous is the metal that is used to extract copper from the solution of copper sulphate.

[View All Answers](#)

Question - 61:

Do you know how a buffer works?

Ans:

In a buffer when a hydrogen ion is added, it will be neutralized by the base in the buffer. Hydroxide ion will be neutralized by the acid. On the overall pH of the buffer solution, these neutralization reactions will not show much effect.

When you select an acid as a buffer solution, try to use an acid that has a pH close to your desired pH. This will help your buffer to achieve nearly equivalent amounts of acid and conjugate base, so that it will be able to neutralize as much H^+ and OH^- .

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Question - 62:

Tell me a liquid that initially contracts when cooled down to 4 degrees Celsius but on further cooling down to zero degrees Celsius, it expands. What is the name of the liquid?

Ans:

Water

[View All Answers](#)

Question - 63:

Tell me what a thick paste of cement, sand, and water is called?

Ans:

Mortar



[View All Answers](#)

Question - 64:

Tell me which element forms the highest number of compounds in the periodic table?

Ans:

Silicon

[View All Answers](#)

Question - 65:

Tell me what is your greatest weakness that is really a weakness, and not a secret strength?

Ans:

I have a lot of ideas for activities and I am not always a linear thinker. When I was student teaching, I expected my students to be able to move with me through lesson plans that often incorporated too many untried technologies and jumped around from one task to another. (like the time students' videotaped an assignment and then we couldn't upload and share them on EDMODO). To address this weakness, I started creating lists of my ideas and bringing them to our lesson planning team or my cooperating teacher where I would sort them and relate each one to a learning standard. This helped me prioritize and choose an anchoring activity or lab around which I was able to plan bursts of direct instruction followed by practice and formative assessment. My students noticed the change and the dynamics of the classroom moved from chaos to more orderly intentional activity. Substitute teaching has really helped me continue to strengthen my lesson organization. By teaching block lesson plans created by seasoned teachers I have been able to keep students engaged and learning in high priority activities tied to learning targets.

[View All Answers](#)

Question - 66:

Explain about a teacher who has inspired you and what did you learn from him or her?

Ans:

This kind of teacher interview question is created to discover your values and motivation. You need to prepare some examples in which show their behavior and teaching styles that inspired you. How have you tried to transmit the lesson you learned from him or her to your students? Emphasize qualities that would be valuable in the teaching position you are applying for in your answer.

[View All Answers](#)

Question - 67:

Explain me what are the skills required for chemistry teacher employee in order to success in his work?

Ans:

Talking to others to convey information effectively, Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times, Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems, Understanding written sentences and paragraphs in work related documents, Using scientific rules and methods to solve problems.

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Question - 68:

Tell me what is the formula you will use to calculate how many millilitres of 5.5 M NaOH are required to prepare 400 mL of 1.5M NaOH?

Ans:

To know the amount or volume of NaOH to prepare 400 mL of 1.5 M NaOH, we use formula

$$M_1 \times V_1 = M_2 \times V_2$$

$$V_1 = M_2 \times V_2 / M_1$$

But before that we will convert 400 mL into litre = 0.4 L

$$5.5 \times V_1 = 1.5 \text{ M} \times 0.4 \text{ L}$$

$$V_1 = 1.5 \text{ M} \times 0.4 \text{ L} / 5.5$$

$$V_1 = 0.10 \text{ L}$$

$$V_1 = 100 \text{ mL}$$

So, you need 100mL of 5.5 NaOH

[View All Answers](#)

Question - 69:

Explain me the formula to calculate pH of a solution?

Ans:

In order to calculate the pH of a solution you have to use the formula $\text{pH} = -\log [\text{H}^+]$ or $\text{pH} = -\log [\text{H}_3\text{O}^+]$

[View All Answers](#)

Question - 70:

What is the term Aliquot and Diluent?

Ans:

Aliquot : It is a measured sub-volume of original sample

Diluent: Material with which sample is diluted

[View All Answers](#)

Question - 71:



Do you know which group of gases contribute to the "Green House effect"?

Ans:

Carbon dioxide and Methane

[View All Answers](#)

Question - 72:

Tell me how does addition of ethylene dibromide help to petrol?

Ans:

Elimination of lead oxide

[View All Answers](#)

Question - 73:

Tell me why did you decide to become a teacher?

Ans:

I am passionate about science, I enjoy working with young people, and when it came time to consider re-entering the work force I thought back to the best job I have had and that was working as a chemist. At the same time, I was volunteering as a tutor and classroom aid for a chemistry teacher at my daughter's high school. I was good at it and I loved it. The teacher and the principal both encouraged me to put the two things together into a mid-life career change and then helped me during my application process to the MAT program at University of Portland. The past three years I have been a substitute teacher in chemistry, biology and freshman physics classrooms working daily and long term. LT subbing has made my desire to teach stronger than ever and I hope to find a teaching job for the coming school year.

[View All Answers](#)

Question - 74:

Suppose a lesson went wrong what would you do?

Ans:

Things don't always go according to plan and it is wise to be able to quickly notice and adapt a lesson. A: For example, I designed a lesson plan around an apartment analogy to teach students how to populate electrons around the nucleus of an element. Even though I ran my idea for the poster project by my lesson planning team, when I actually did it with my students I saw too many not understanding the steps. R: I reflected on the gaps and revised the guided practice portion to give more opportunities together. The next class had more success creating and using their posters to write electron configurations.

[View All Answers](#)

Question - 75:

Tell me what are your areas of strength in the curriculum?

Ans:

You need to have an honest self-evaluation of your strengths. Present a clear understanding curriculum and explain why you consider those special districts as your strengths. Identify strengths that you want to enhance and the steps you will or are following to catch your goals.

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Question - 76:

Do you know what is dextro-rotatory and levo-rotatory?

Ans:

Lavorotation and Dextrorotation is referred to the properties of plane polarized light, when light rotates clockwise when it approaches the observer is then known as dextro-rotation and when the light rotates anti-clockwise then it is referred as levo-rotation.

A compound which exhibits a dextro-rotation is referred as dextro-rotatory and which exhibits levo-rotation is referred as levo-rotatory.

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Question - 77:

Tell me what is the monomer of polyethene?

Ans:

The monomer of polyethene is ethylene

[View All Answers](#)

Question - 78:

Explain what is Avogadro's law?

Ans:

According to Avogadro's law, at same temperature and pressure equal volume of gases contains the same number or molecules regardless of the chemical nature and physical properties.

Avogadro's number = 6.023×10^{23}

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Question - 79:

Tell me what is the difference between fractionation and distillation?

Ans:

Both methods are used to separate the components present in the solution based on the melting points



* Distillation : This technique is used when boiling point of chemicals are different in the mixtures

* Fractionation : This technique is used when boiling point of chemicals are close to each other in the mixtures

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