

Maths Teacher Interview Questions And Answers Guide.



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Maths Teacher Job Interview Preparation Guide.

Question # 1

Do you know what is a standard deviation?

Answer:-

Standard deviation is the measure of the spreadout of the data about the mean value. It is referred as sigma and represented as symbol sigma.

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Question # 2

Tell me what is Exterior Angle in polygons?

Answer:-

In polygons, angle between any side of the shape and a line extended from the next side is referred as Exterior Angles. All the exterior angles of the polygon add up to 360. Each exterior angle must be 360.

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Question # 3

Tell me what is Commutative, Associative and Distributive laws in maths?

Answer:-

* Commutative laws say we can swap numbers, and you still get the same number when you add, for example, $a+b = b+a$ and same for multiplication.

* Associative laws say it does not matter how we group the number final value will remain the same, for example, $(a+b)+c = (a+b)+c$, and same for multiplication

* Distributive laws say that we can have the same answer while multiplying a number by a group of numbers added together or multiplying them separately and then add them, For example, $a \times (b+c) = axb + bxc$

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Question # 4

Tell us what different classes of maths are and what maths you prefer?

Answer:-

Different types of field for maths are Calculus, Algebra and Fractions. I use all types of maths, but Calculus is major.

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Question # 5

Explain me how do you use technology as a tool for learning in your classroom?

Answer:-

I incorporate technology into the classroom on a daily basis. I am obsessed with my Smart Board because it allows us to do many math games from online websites. I also use computers as one of my centers/stations during class time. For this, I will set up a game on the classroom computers, and students will rotate to the computers during our stations to complete the math activities. They are not always games, but sometimes they are learning tools that have the students answering multiple-choice questions. I find that multiple-choice computer activities are wonderful test practice because students can use their test-taking strategies to answer the questions. Technology, in general, can open up a whole new world.

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Question # 6

Explain me how do you create a successful home and work balance?

Answer:-

What's balance? Seriously, I find that learning how to prioritize (along with shaving off a bit of sleep, unfortunately) plus having good time management skills and a sense of what really needs to get accomplished really helps me out. Plus, I dedicate certain periods in my day to certain activities. For instance, my blogging schedule gives me four days throughout the week for about an hour or so per piece.

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Question # 7

Tell me how have you worked to be an advocate for students who are at-risk in your school?

Answer:-

I currently teach at a high school that is striving to increase its graduation rate. I am assigned a homeroom and I am to monitor students' grades, referring some students to peer intervention and others to counselors if I see danger signs of dropping out. While time consuming, I find that students who know that I am there for them come to me for help. This program makes homeroom teachers the advocates and it works well.

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Question # 8

Tell me what ways do you assess and evaluate students?

Answer:-

In assessing students, I make use of different methods. I use formal and informal assessment procedures to promote social, academic, and physical development. The usual assessment that I use is written quizzes (case studies, discussions) and examinations. Throughout the semester, I also grade and assess students on their class participation such as recitations, reports, group activities, and seat work. I also assess and grade students based on their completion of assignments and timeliness in submission. I also use authentic/alternative assessments, in which the student shows they can perform a task, such as making a speech or writing a story. I like to use written, oral, and day-to-day assessments.

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Question # 9

Explain me what did you find to be the most difficult aspect of student (intern) teaching?

Answer:-

For me, the most difficult part of student teaching is the limited contact hours with students within one class period (or day). When I teach, I have so much information that I would like to impart to my students that time flies by too fast. I always go to my classes full of energy and armed with lessons which I believe will stimulate curiosity and spark understanding and new insights in my students. There is so much information that I need to present for them to have a comprehensive understanding of a concept. My challenge is to make sure that I structure my lessons so effectively that learning takes place in one class period (or day). So I plan ahead to maximize every minute of my class period (or day).

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Question # 10

Explain me what will you do to modify your teaching to meet the needs of a gifted student?

Answer:-

A gifted student in the midst of the regular students can be a challenge in terms of addressing his or her particular needs and capabilities. What I will do is to modify his work assignments in expectation or length to fit his abilities. His tasks will require a higher level of understanding compared to the regular students. During class discussions, I can direct questions to him or her that require higher-level thinking skills. I also would encourage the gifted student to take a leadership role in group work so that his classmates can emulate and be inspired by him.

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Question # 11

Do you know what is co-teaching?

Answer:-

Co-teaching is a new strategy adapted by teachers to teach a particular subject by sharing their responsibility. Co-teaching can be fun for the student learning one subject from two or more people who may have different ways of teaching or thinking.

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Question # 12

Tell me what the teacher must do on their very first day?

Answer:-

On their very first day, teacher must do following things

- * Know the school policies
- * Familiarize yourself with the school
- * Meet your colleagues
- * Make your material ready for the first day
- * Prepare your lesson thoroughly and stay relax
- * Make detailed lesson plans for the first week
- * Teach something to the student that is easy for the student to learn, and spend last 5-10 chatting with the student

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Question # 13

Explain what are the benefits of extracurricular activities?

Answer:-

Student will learn many things through extracurricular activities

- * Learning time management and prioritizing
- * Learning about long term commitments
- * Motivates them for other careers
- * Raise their self-confidence
- * Team work and relationship skills
- * Making a contribution



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Question # 14

Tell me what thing middle school teacher (PGT & TGT) have to take care while dealing with students?

Answer:-

- * Don't dictate or pressurize student to use what they have learned
- * Don't expect from the student to understand everything what you thought specially figurative language
- * Don't keep talking and discussing the topic to yourself, let student get involved in it
- * Don't make student work on the same thing over and over
- * Don't embarrass students
- * Don't allow to sit students in groups with the same peer
- * Don't expect students to work independently

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Question # 15

Tell me how you can prepare students for standardized assessments?

Answer:-

In almost all grades, standardized assessment is carried out. You should be able to tell the name of the test and format of the test, it will be an extra credit if you explain it with some of the experiments you carried out with the students.

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Question # 16

Do you know what is tangent?

Answer:-

A line that touches a curve at one point, without passing or cutting across it is referred as tangent.

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Question # 17

Tell me how you can convert a fraction to a percentage?

Answer:-

To convert a fraction to a percentage, we look into an example for $\frac{4}{9}$

- * First divide $\frac{4}{9} = 0.44$
 - * Then multiply by 100 = $0.44 \times 100 = 44.44$
 - * Add the "% " sign to the answer = 44.44%
- Percentage of $\frac{4}{9} = 44.4\%$

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Question # 18

Tell me how much space would a 30 Cup shelf require if a 12 shell cupboard requires 18 ft. of wall space?

Answer:-

A 30 Cup shelf requires 45 ft. of wall

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Question # 19

Explain me what do you most enjoy about being a teacher?

Answer:-

Everything! I enjoy the struggles, the hardships, the students, the laughs, the dancing (yes, we dance), and the learning. Each day is very different than the day before, and the students keep me on my toes. Teaching allows you to work with an amazing group of kids, while also challenging you as an adult.

Each day I learn something new, be it from my students, from other teachers, and even my own mistakes. Fifth graders are amazing and it is wonderful watching them grow. They are witty and coming into their own. They are learning how to be sarcastic and express themselves. I enjoy watching them figure out who they are, who they want to be, and who they decide to hang out with. In teaching leadership at our school, they also learn a lot about how to make good choices and plan for their future. The Seven Habits have been a great addition to my classroom.

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Question # 20

How do you make your lessons engaging, fun and also relevant to the lives of your students? As you know Math can be a challenging subject for some learners?

Answer:-

Making math engaging is all a matter of bringing as much clarity to the concepts and procedures as possible. Lots of that has to do with understanding what will bring students to the idea that, yes, they can get it wrong, but if they persist and keep trying, we can arrive at the correct solutions, no matter how many solutions there are.

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Question # 21

Tell us so much content to cover with standards, describe your approach to long-term planning?

Answer:-



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In the school where I currently teach, we have grade-level meetings to go over our curriculum maps. Curriculum mapping has helped me to see the year at a glance, as well as to look for gaps and overlaps in the curriculum from my grade to another. I can now lead curriculum mapping for a grade level.

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Question # 22

Tell me are you a flexible teacher? If so, explain how?

Answer:-

Yes I am a flexible teacher. I can deal very effectively with people and students from all backgrounds and socio-economic groups. In teaching, I am completely aware that students have different learning rates and styles. Some are fast learners and some are slow learners, some learn best in auditory manner, others through actions or visual media. Still others have specific learning disabilities. I am flexible in the sense that I address these differences and make it a point to respond to their different needs. In my teaching, I make use of different learning strategies so that my instruction will be interesting and motivating to students. I use lecture, discussion, hands-on activities, cooperative learning, projects, manipulatives, role playing, debates, reports, technology, and others. (Choose the ones appropriate to the subject and/or grade for which you are applying.)

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Question # 23

Explain me what do you do to accommodate a student with an IEP?

Answer:-

An Individualized Education Plan will be successful if proper coordination and collaboration are emphasized by the teacher, parents, psychologist, and other school staff. I accommodate a student with an IEP by planning a series of in-depth discussions with the parents to learn about the student's diagnosis and needs and later to inform the parents of his progress. This allows me to design an education program that addresses his specific needs and puts into place special accommodations. I also will document my own observations and evaluations of the student's academic work and behavior. As I gain knowledge and information about the student with the IEP, it will be easier for me to decide on the lessons and teaching and learning styles I should use to accommodate his needs and maximize his learning. There are many types of accommodations, depending on the student's diagnosis, for example, instructing a student through the use of manipulatives, providing a seat near the front of the room, reinforcing positive behavior every few minutes, providing extra time for assignments, and giving tests orally instead of in writing.

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Question # 24

Tell us do you enjoy teaching children? If so, how would I know if I observed your class?

Answer:-

What I most enjoy in teaching is hearing my students explain, in their own words, what they learned in a particular lesson and watching them enjoy participating in a lesson. When you observe my class, you will see that I get my students engaged in our discussions and activities. You will see that my students actively participate in each lesson. I make sure that all of them have a chance to speak, express their thoughts, and share them with the class. I enjoy how their faces brighten every time I recognize their efforts to learn by saying, "Very good," "That's a great idea," "Good job," and other encouraging phrases. At the end of the lesson, you will hear the students explain what they learned. Most of all, you'll know that I enjoy teaching because the children in my class look happy.

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Question # 25

Tell me how can a teacher handle a weak student?

Answer:-

- * A teacher can motivate weak student by motivating them for the subject they are interested in
- * Sometimes the teacher has to realize specially weak student about their strength and its capability
- * Teacher can confront individually with the student about the problem he is facing
- * Teacher could adopt different teaching methods, so it's easy for the student to understand the thing
- * Teacher must encourage such student to express their view on the subject or any topic
- * Teacher must create an ambience that make them feel equally important and unbiased

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Question # 26

Tell me what is the major reason for the drop out in middle school is observed?

Answer:-

The major reason for the drop out in school is observed to be due to student's lack of skill in reading, writing, mathematical, reasoning and other learning skills. Also, students who are drop out of school finds schooling boring and less interesting.

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Question # 27

Explain the pros and cons you see of implementing CCSS (Common Core State Standard)?

Answer:-

Pros:

- * You can examine the standard by yourself and see whether it gives the desired result
- * It helps to know students and teachers consistency at each grade throughout all states
- * It helps teachers to collaborate with any school nationwide
- * It helps to improve professional development for teachers
- * Easy for student to get a grip over the subject while moving to other states

Cons:

- * Lack of implementation
- * Sometimes challenging for students to meet the CCSS standards

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Question # 28

Tell me what is the difference between Line, Point, Plane and Solid?

Answer:-

- * Point has no dimensions
- * Line is one-dimensional
- * Plane is two dimensional
- * Solid is three dimensional

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Question # 29

Explain me an example where you can use a linear equation in your daily life?

Answer:-

For example, if you are the office is 20 miles from your office, and you have reach 8 am, and you know that the traffic is moving at 40 miles per hour.

To know what time you should leave from home, use this equation

Time taken = distance/ rate of travel

$t = 20/40 = 1/2$ or half an hour. To reach the office at 8 a.m., you should leave home at 7: 30 am

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Question # 30

Explain me in a small company average salary of three employees is \$1000 per week. If one employee earns \$1100 and other earns \$500, how much will the third employee earn?

Answer:-

Formula to calculate this,

$$(e1+e2+e3) / 3 = \$ 1000$$

$$1100+500+e3 = 1000 \times 3$$

$$1600+e3 = 3000$$

$$e3 = 3000-1600$$

$$= 1400$$

The third employee will earn \$1400

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Question # 31

Do you know what is algebra?

Answer:-

Algebra is one of the fields of maths, which uses symbols and letters to represent numbers, point and objects, as well as relationship between them. It is used to know the unknown variables.

For example, you have lost 5 pens, and you are left with 10 pens now, to know the total number of pens you had it. You will use algebraic equation.

$$X - 5 = 10$$

$$X = 10 + 5 = 15 \text{ which is the total number of pens you had.}$$

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Question # 32

Explain me what aspects of your job are the most challenging?

Answer:-

Students enter fifth grade with such different math abilities, making it challenging to teach them. There is always a slight struggle each day when I am trying to teach something to students who have not yet developed the basic skills. I often have to take a step back, break students into small groups, and attack those basic skills. This is challenging because it gives teachers that feeling that we cannot be everywhere at once. I wish I had four of me in the classroom on some days! However, when those students who struggle start to 'get it,' it is the best feeling a teacher could ever have! Of course, there are also students whose abilities are well above the fifth grade level and it is hard to keep challenging them. I actually have some of my students doing eighth and ninth grade algebra. They are like sponges and absorb any information I bring to them. They work so hard!

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Question # 33

Tell me what do you most enjoy about being a teacher?

Answer:-

The students are always the best part of being a teacher. Lots of people talk about small victories, but I like to think of them more as 'sparks.' When I see a student who normally doesn't get it catch a spark of understanding, we try to hold onto it for dear life.

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Question # 34

Explain me how have the Common Core State Standards guided your lesson preparation? Or, how have your state or local standards guided your lesson preparation?

Answer:-

The standards are certainly a starting point, a focus point. In my college classes, we started our plans with the standard, and then developed a student objective that would demonstrate mastery. Next, we determined how to focus students, do a quick review to tie the material to something already learned and how to engage the students with the new material. We always assessed each lesson in some way, formally or informally. Having posted standards helped students monitor their own learning, too.

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Question # 35

Do you know what are some of the trends, issues, and methodologies in education that relate to your specific curriculum area or grade level?

Answer:-

Here are some trends, issues, and methodologies that relate to most subjects and grade levels. You might say: It seems that increasingly students have more information and knowledge than ever before due to access to the internet. A teacher has to be aware of what the internet is, how it can be used in positive ways, and how to protect students from negative influences on the internet.

It can be a powerful learning tool for students. In addition, technology in general has changed education greatly. Using computers, videos, and other kinds of technology makes lessons more interesting and more fun. It also makes it easier to teach students with varying needs. A computer with internet access can open the world up to the classroom.

An issue that is important is teaching to state standards. School time is limited and we must make the best use of it that we can, so I try to relate every lesson and activity to a grade level standard. That keeps me focused on the overarching goal of improving education and helping children do better academically.

One of the most important methodologies in my opinion is teaching through multiple intelligences. Children learn in so many different ways. I try to reach everyone by teaching through the senses, using visual, auditory, and sense of touch to impart information. When possible, I try to include the senses of taste and smell, too!

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Question # 36

Tell me how do you differentiate your teaching? Please provide a couple of examples?

Answer:-

My teaching is unique in the sense that while teaching approach is holistic, it is also inclusive and individualized. It is holistic because I not only share knowledge with my students, but I also elicit knowledge from them. For instance, when I was teaching mathematics, I didn't simply teach formulas and methods of solving mathematical problems. I also explained to my students the value of understanding numbers and the great things we can use math for, such as the ability to think logically. I include all students in my lessons. For those who have difficulty, I use cooperative learning, peer tutors, and re-teaching techniques. I attend to the individual needs of the students by modifying assignments. For example, when I had a group of gifted children in my class, I regularly gave them special assignments to work on that would stimulate higher level thinking skills and had them present their work to the class.

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Question # 37

Explain how teacher can make teaching effortless?

Answer:-

These can help the teacher to leave his impact and make out maximum of it

* Use a pleasant and normal tone while communicating with the student.

* Start delivering lecture only when student is ready to receive from you

* Try to use non-verbal communication or hand signals, this will help the student to take an interest in what you are saying. Sometimes non-verbal communication says more than your verbal thing

* Address immediately on any unpleasant or unsatisfactory situation with students, always approach student as they need help or have some doubt.

* Bored students are equally harassing as troubled students. Always have an interactive session and well-designed engaging lesson

* Organize the class outside the classroom sometimes like in open ground, it will change the ambience

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Question # 38

Explain me what are the exploratory courses or classes you prefer for middle school student and why?

Answer:-

Any exploratory courses or class can be helpful for middle school student to develop their skills

* Arts: Student can express themselves by learning instruments and dance including band, chorus, etc.

* Business Courses: It teaches them typing and enhances their keyboard skills which can be further used in business marketing and computer design

* Foreign languages: Learning a foreign language always add a credit to your skills, and middle school can help the student to get a head start in this

* Physical education and health: Physical activities help students to become stronger and become competitive and also relieves them from stress and boredom

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Question # 39

Tell me what is the motive behind building middle school?

Answer:-

The motive behind building middle school is to fill the gap between elementary and high school and easy transition of students into adolescence.

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Question # 40

Suppose bus conductor issues 50 tickets in 30 minute how many tickets can he be able to issues in 8 hrs.?

Answer:-

If bus conductor issues 50 tickets in 30 minutes, so the number of ticket issues in 8 hr. will

$(480 \times 50) / 30 = 800$ tickets

So the conductor can issue 800 tickets during 8 hrs.

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Question # 41

Tell me in a complicated calculation like $8 + (9 \times 52 + 8)$ from where you will start calculation?

Answer:-

To avoid confusion from where to start the calculation from, you have to follow the BODMAS



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B = Bracket first
O = Orders (Powers and Square roots)
DM = Division and Multiplication
AS = Addition and Subtraction

Once you have done with B or O, then proceed from left to right doing any "D" or "M" as it is given in the problem, and then proceed from left to right doing any "A" or "S" as given in the problem.

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Question # 42

Basic Math Teacher Job Interview Questions:

Answer:-

- * What qualities do you feel are most important for a teacher to have?
- * What role do state and national standards play in your classroom teaching?
- * What grade do you enjoy teaching the most?
- * What are the state standards for the grade you hope to teach and how will you incorporate them into your teaching?
- * What are the developmental needs and characteristics of children in this grade?
- * What subject are you passionate about and how will you share your enthusiasm with your students?
- * What would we see if we walked into your classroom?
- * Describe your style of teaching and give examples.
- * What are your expectations for your students?
- * What current reading and math instructional practices are you comfortable using?
- * How often will your students be actively involved in cooperative learning?
- * Describe your use of auditory, visual, and hands-on teaching techniques.
- * What do you consider your greatest teaching accomplishment?
- * Share an example of a successful lesson or learning activity that you created and used.
- * Discuss a classroom situation or lesson that did not go as well as you would have liked, and what you did about it.
- * How do you gain and maintain student attention?
- * What kind of relationship do you want to foster with your students?
- * What do you do to motivate a student who is failing, just getting by, or who is below grade level?
- * How do you differentiate instruction?
- * How do you improve student reading comprehension and test scores?
- * What are some challenges that you think you would face?
- * Describe your ability to use technology and how you would integrate it into your teaching.
- * How do you address the various learning styles of your students?
- * How do you go about teaching something that is not your strength?
- * What are your thoughts about team teaching?
- * What resources in the community have you used or do you plan to use in your teaching?
- * In what ways do you personally evaluate your teaching?
- * What are some educational issues or trends that relate to elementary teaching?
- * What experience have you had working with at-risk and/or low income students?
- * If an aide was provided, how would you utilize him/her?

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Question # 43

SITUATIONS based Math Teacher Job Interview Questions:

Answer:-

- * One of your students is homeless?
- * One of your students does not turn in any homework?
- * One of your students refused to do any classroom assignments?
- * One of your students is absent more than he/she attends school?
- * One of your students confides that he/she is being molested?
- * One of your parents is telling lies to other parents concerning your teaching?

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Question # 44

CLASSROOM MANAGEMENT & DISCIPLINE based Math Teacher Job Interview Questions:

Answer:-

- * How do you minimize conflict in your classroom?
- * What are your classroom rules and how are they established?
- * What routines or procedures would you use and how would you introduce them to your students?
- * How do you acknowledge students who are following the rules?
- * How do you help students develop problem solving skills?
- * What approach to classroom management has worked for you?
- * What would you do if your management plan did not work?
- * Explain how your past experiences will help you manage classroom behavior.
- * Do you use tangible rewards?
- * What is your approach to discipline and how do you maintain it?
- * Give an example of how you would handle a peer conflict.
- * What do you see as the greatest problem you may have regarding classroom discipline?
- * What role should the principal play in classroom discipline?
- * What role should parents play in classroom discipline?
- * Describe the toughest discipline situation that you have encountered and how you handled it.
- * What steps would you take if a student continually disrupted your class?
- * What would you do if the student exhibited serious misbehavior such as throwing things or threatening to hurt a child or you?

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Question # 45

SPECIAL NEEDS based Math Teacher Job Interview Questions:

Answer:-

- * How do you feel about having children with special needs in your classroom?
- * What would you do before recommending a child for special services?
- * How do you assist 501 students and special services students?
- * How do you teach a student with an Individualized Education Plan?
- * What kinds of adaptations have you used? Were they successful? Why or why not?
- * What materials have you found most effective when teaching special needs students?
- * What do you do to support and challenge students with exceptional abilities?
- * Describe your experience collaborating with special education teachers.

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Question # 46

PERSONAL Maths Teacher Job Interview Questions:

Answer:-

- * When did you decide to become a teacher and why?
- * Tell us about yourself, your background, and your experience working with children.
- * Describe yourself using five adjectives.
- * Describe how your academic training and work related experiences qualify you for this position.
- * What do you think sets you apart from other applicants?
- * What strengths do you have that would assist you in being a successful teacher?
- * Name two areas of weakness that you are working to improve.
- * What special skills, talents, or knowledge will you bring to our school?
- * What concerns do you have about your student teaching experience or your last teaching position?
- * In what ways did a professor or supervising teacher influence your teaching?
- * How do you handle stress?
- * What have you learned about yourself in the past few months?
- * If you had not chosen teaching as a career, what career would you have chosen?
- * What do you think your students would say about you?
- * Discuss your favorite book or author.
- * What have you read that contributes to your teaching success?
- * Describe a hobby or interest.
- * On what teams and/or in what clubs have you participated?
- * How do you see yourself involved in community and/or in school activities?
- * Describe your fluency in a language other than English.
- * Relate a situation when you used "people skills."
- * What professional conferences have you attended?
- * How does this position fit with your career goals?
- * What other credentials are you interested in pursuing?
- * Is there anything else that you want us to know about you?

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Question # 47

PARENTS based Math Teacher Job Interview Questions:

Answer:-

- * What kind of relationship do you want to foster with the parents of your students?
- * How do you enhance communication with parents?
- * Why are parent conferences important?
- * How do you use parent volunteers?
- * How do you plan to include parents in their child's classroom?
- * Under what circumstances will you contact a parent?
- * Describe a time when you dealt with an angry parent.
- * How would you assist an overly involved parent in becoming less involved?
- * How will you involve a parent of a child who is consistently angry and rebellious?

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Question # 48

ASSESSMENT based Math Teacher Job Interview Questions:

Answer:-

- * How do you determine each individual child's potential?
- * How do you measure a child's educational achievement in ways other than by testing?
- * What kinds of assessment tools have you used?
- * Describe the kinds of tests you give to measure student mastery.
- * How do you prepare children to take standardized tests?

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Question # 49

GENERAL Maths Teacher Job Interview Questions:

Answer:-

- * What is your philosophy of education?
- * Why are you interested in working in this school (district)?



- * What do you know about our school, students, and/or community?
- * What do you understand this school's mission statement to mean? How does your teaching philosophy fit with that mission?
- * What do you see as the greatest challenge facing teachers today?
- * Define professionalism and what it means to you.
- * What do you look for in an administrator?
- * What questions do you have for us?

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Question # 50

As you know professional learning communities (PLCs) have become more and more common. Describe any experience you have had with a PLC?

Answer:-

While my colleagues and I didn't use the term PLC, we did form a book study group last year for all of the 6th grade teachers on our team. Since we are seeing so many more students coming to our school from lower socio-economic areas, we read a book about teaching students from poverty. We gained some practical ideas, but more importantly, by meeting regularly, we were able to share our frustrations and our successes. I would like to implement something similar when hired here.

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Question # 51

Explain as a grade one teacher, how would you motivate parents to become involved in the classroom and in their child's education? ?

Answer:-

What is critical to communicate in your response to this question is your understanding of the importance of parental involvement and how you always encourage participation to strengthen student-teacher-parent relationships. (Grandparents can also be encouraged to participate.) Talk about some of the things that parents can volunteer to do in the classroom, such as: reading with students, preparing project materials, creating bulletin boards, sorting materials, setting up learning centers, hanging up students' work, etc.

Parental involvement means much more than just attending parent-teacher interviews. You must set goals to keep the parents abreast of what is going on in the classroom. You can communicate that information and ask for volunteers through weekly or bi-weekly newsletters. You might inform parents when you are starting a new unit or specific projects and make sure they clearly understand the homework assignments each week. Make sure that parents are invited to any momentous or appropriate events.

You should contact or speak to parents not just when a child is having difficulty, but also when they are doing well. Tell the hiring panel that you will call parents and send notes home complimenting students on good behavior. Also mention that you try to recruit bilingual parents to help with communication as necessary.

Let the hiring committee know that you coach parents on how they can help their child succeed academically. You may have read some resource book(s) to gain ideas that you could implement. If so, let the panel know. Holding a parent appreciation lunch or tea to acknowledge those who have helped in the classroom is a great idea. Consider attending some of the PTA meetings. If your portfolio contains any past newsletters or parental communication letters, make sure you show these to the panel.

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Question # 52

Tell me how teacher can involve parents in students' progress?

Answer:-

- * Regular parent's conference: One-to-one contact is the best way to communicate with parents. In a conference, teacher need to discuss the student progress and any concern parents has about the student
- * Use technology: Teacher should post about assignment, project due dates and event information on their school website so parents can be aware of the latest updates and events going on the school. Providing an e-mail is another effective way to communicate with parents
- * Open House: Encourage parents to participate as classroom volunteers, and become a member of parent teacher organization. Open house is another medium to keep parents updated with essential information they will need throughout the year
- * Monthly Newsletter: It is an easy way to keep parents informed about their child progress. Newsletter includes information like school events, assignment due dates, monthly goals, volunteer opportunities, etc.

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Question # 53

Do you know what are the duties of a high school teachers?

Answer:-

High school teacher duties includes

- * Prioritizing teaching methods
- * Preparing material for seminars and presentations
- * Enforcing disciplinary actions
- * Conducting progress reports
- * Assessment of student progress
- * Lecturing and discussing concepts
- * Making administrative and budget decisions

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Question # 54

Tell us what is the responsibilities of a middle school teacher?

Answer:-

The middle school teacher responsibilities includes

- * Helping children to move from early phases of learning to become expert
- * Conducting and grading tests
- * Presenting and setting up lessons
- * Working with students both in groups and personally
- * Tracking and monitoring the performance and progress of each student
- * Regular meeting with parents to discuss student's progress



* Supervising activities after school hours for sports, club and dance activities

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Question # 55

Do you know what teacher must not do?

Answer:-

- * Teacher should not humiliate student, especially in front of others
- * They should not judge a student on the basis of their academic records and marking
- * Teacher should not give low grade to the student due to their personal strife
- * Teacher should not ask the student to cover everything on their own, when they miss a class; their assistance is required
- * Teacher should not look students grasping power as an equal to his/her, and expect them to learn everything real quick
- * Teacher should not teach a lesson as if he/she teaching to himself. He must involve students by taking small breaks in between lessons and ask them if they needed any help
- * Teacher should not try to dominant student, in fact; they should remain calm and be at receiving end
- * Teacher should not be over-demanding and understand the potential of the fellow student before allotting any task

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Question # 56

Tell me do you know what is going on in education today? Do you have a passion for the profession? In other words, do you stay current?

Answer:-

Here is a possible answer for this question. I love education. I think that it is imperative to be a lifelong learner when one is a teacher. I plan to continue my education by (fill in this blank with your own plans). Technology continues to evolve into a strategic part of education. Tablet PCs and hand held devices are the newest gadgets on the market for students to use; the internet is an incredible resource. Technology provides interactive, individualized learning experiences, increasing student engagement and efficiency - in safer and more secure schools. Multiculturalism and securing equal opportunities for all are important themes in education. And, of course, teaching to state standards to upgrade student academic progress is very important.

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Question # 57

Suppose let's pretend it's almost the first day of school and you are a first grade teacher. How would you prepare your classroom?

Answer:-

This question tests how well you will manage the classroom. The philosophy is that the more organized you are, the more well-run your classroom will be. Don't give the panel just a few words... they may be using a checklist to see how many items you mention. Plus, as a teacher, you should be very excited about this question and be able to speak for a while, but limit the response to two minutes.

Your response must provide them with an idea of how nurturing and inviting your classroom will be to students. Come up with some creative decorating ideas, making sure they are student-centered. You could also mention a huge welcome sign, the daily schedule, age-appropriate posters, name tags for students, labeled desks (how will they be arranged?) and lockers, a list of class rules/consequences/rewards, and other labeled areas (e.g., the classroom library, manipulative storage, computer area), etc. Or, mention that you might invite parents and students to visit the classroom the day before school starts, with the administrator's permission. If you have a portfolio with have pictures of other first days of school, this is a great chance to share them with the panel.

Next, make it clear that you will have organized the textbooks, your lesson plan book, your grade book and other materials well before school begins. Mention several activities you might include during the first day of school, including an ice-breaker, a trip to the restrooms, and a fun art project.

The real key to this question is to show your enthusiasm, passion, excellent organizational skills, and how you will create a warm and captivating environment in which students will feel safe, where learning will be maximized, so that children will look forward to coming to school each day.

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Question # 58

Tell me what aspects of your job are the most challenging and how do you overcome them?

Answer:-

My biggest challenge is balancing my students' needs with the pressure of my district's pacing expectations. It is very difficult to find time to execute enriching lessons or conduct interventions when our curriculum often covers different topics each day. It is a constant internal battle I face when I know I want to do what is right for my students while also trying to meet the expectations of administration.

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Question # 59

Tell me in a staff room, there are four racks with 10 boxes of chalk-stick. In a given day, 10 boxes of chalk stick is in use. What is the fraction remains in the rack?

Answer:-

If each rack consist of 10 box of chalk stick, then total number of box on 4 racks will be

$$4 \times 10 = 40$$

Now, the second part is 10 of the boxes are in use which means that total amount of box left is= $40 - 10 = 30$.

Now the fraction will be

$$\text{Remained/ total} = 30/40 = 3/4 \text{ is the fraction remain in the rack}$$

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Question # 60

Tell me how much is a hectare and how much is square millimetre?

Answer:-

* 1 hectare = 100 meters on each side , so a hectare has $100 \text{ m} \times 100 \text{ m} = 10,000 \text{ m}^2$

* A square millimetre is millimetres x millilitres; a millimetre is a thousand part of a meter, so a square millimetre is one millionth of a square meter

$$1 \times 1 = 1 \text{ of a square meter}$$

$$1000 \ 1000 \ 1,000, \ 000$$



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Question # 61

Explain me what are the skills middle school teacher should have or implement to make teaching more effective?

Answer:-

- * Provide study material which is compelling and easy to understand
- * Try create an ambience where students can help each other
- * Allot homework smartly which is a burden less and more meaning full
- * Model thinking and not solution or answer oriented
- * Provide the feedback immediately and which is more relevant to the task
- * Before state testing gets math tutor volunteers once a week for 2 months
- * Use story telling method to teach maths to students

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Question # 62

Explain me what is your view on the implementation of new subject in the curriculum and which subject you would like to include?

Answer:-

- * Computers are inevitable in 21st century; a basic computer programming from high school onwards can help students to become a pro by the time they complete their colleges
- * Data science engineering is another subject that could be helpful to the student in their near future
- * Statistics is like catalyst for data analysis, with little knowledge with statistics they can handle and operate data library in any field

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Question # 63

Tell us how you can convert a percentage to a fraction?

Answer:-

To convert a percentage into fraction let say 70% to a fraction

- * Convert 70 % into decimal = $70/100 = 0.7$
 - * Write down the decimal "over" the number 1 = $0.7/1$
 - * Then multiply top and bottom by 10 = $0.7 \times 10 = 7/10$
- For each number after the decimal point 1×10
(10 for 1, 100 for 2)
- * Which will give = $7/10$
 - * $7/10$ it the fraction form

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Question # 64

Explain me what are the type of qualities would you look for in a principal?

Answer:-

- * Having a vision and a clear goal
- * Planning and motivating
- * Good communication at all levels
- * Visibility, consistency and accountability
- * Supportive

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Question # 65

Tell me how can you reduce drop out in middle school?

Answer:-

To reduce drop out in middle school various steps that should be considered are

- * Link student interest with learning
- * Provide them appropriate environment for studying like vary classroom format day to day
- * Give students few options in topics to study or research, and make an attempt to link the material or topics to everyday life, for example, relate some outdoor activities with maths problem
- * Use map, a pictorial diagram, power point presentation and visual image to make topic more comprehensive and less boring
- * Teachers should bring belief in their students about how the project or some course can benefit them in their career prospectus
- * One to one conversation with students about their liking towards any activities it could be sports, music, painting, etc.

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Question # 66

Explain me what are effective classroom management styles?

Answer:-

Effective classroom management styles include

- * Don't attend any parent's- teacher conference, student meeting or discussion until you are clear about the goal
- * Don't promise student to do something which you can't able to do
- * Understand students all aspects and requirement for class-room
- * Ensure that whatever you implement or say should be practically feasible and beneficial for the student

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Question # 67

Explain what is Geometry is about?

Answer:-

Geometry can be classified into two classes

- * Plane Geometry: It is about flat shapes like triangles, lines and circles that can be drawn on a piece of paper
- * Solid Geometry: It is about three-dimensional objects like cylinders, cubes, prism and spheres

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Question # 68

Tell me what will be your approach when a lesson does not work well?

Answer:-

- * Try to analyse what went wrong
- * Concentrate on the weakness of the lessons
- * Make the content easy and more comprehensive
- * Utilize useful resource
- * Take advice and guidance from other experienced teachers

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Question # 69

Tell me what would be your classroom management structure if you are hired?

Answer:-

The classroom management structure the I would opt for -

- * Listening students in one-to-one meeting
- * Solving issues among the students
- * Try to involve parents in the disciplinary process
- * Having student sign a learning contract at the beginning of the year
- * Agreeing on a set of classroom rules together as a class

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Question # 70

Tell me what are some of the problems faced by middle school?

Answer:-

Some of the problems faced by middle school is

- * Insufficient teacher training
- * Inappropriate learning environment
- * Less involvement of parents
- * Emotional stress and other issues

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Question # 71

Explain what does special education teacher do in middle school?

Answer:-

Special education teacher helps the students who have severe emotional or physical disabilities. Their key responsibilities include

- * Specialized techniques used to teach such students like problem-solving assignment, intensive individualized instruction and small group work
- * While arranging test, lengthening the time for a test or providing material which is read-only
- * Develop IEP (Individualized Education Program) which sets individualized teaching program for specific students and preparing them for middle school
- * Co-ordinates with associate teachers, teacher assistant, therapist, social workers and related personnel to meet such student needs
- * Teaching such students individually in a separate class

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Question # 72

Tell me what is the formula for calculating interest rate?

Answer:-

There are two types of interest which can be calculated using a different formula

Simple Interest

Compound Interest

To calculate simple interest, formula used is $(P \times R \times T) / 100$

Where P is the principal amount, R is for the rate of interest and t is for time

Formula for calculating compound interest is $P \times (1 + r/100)^t$

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Question # 73

Tell us what is Cubic Meter?

Answer:-

Cubic Meter is the standard unit used to measure the volume of an object length by length. The unit is written in m³.

1 m³ (Cubic Meter) = 1000 liters

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Question # 74

Tell me what advice can you give to recent graduates who are preparing to start a teaching career?

Answer:-

Spend some time in the classroom. Learn some empathy. Get a nice watch. As the year progresses, start difficult, get easier if you must. Learn from other teachers, take what works for your personality, and apply it as early and often as possible.

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Question # 75

Explain me what is your classroom management plan?

Answer:-

My general classroom management plan is to make my classroom feel like a home to every student. I want them to feel valued, intelligent, safe, and comfortable. I want them to respect me, the teacher, and each other and to show that respect by treating everyone with kindness and caring. The class environment must be conducive to learning so I welcome everyone's opinions and encourage and respect student differences. I try to understand the expectations of my students and make them aware of my expectations. I always make it a point to clearly communicate my expectations at the beginning of the school year. In this way, I ensure that the students and I are moving toward the same goal - learning for all. I establish firm, but fair and consistent discipline. I try to maintain a regular schedule each day. If the classroom is well-managed and teaching is effective, the participants in this learning environment will learn, grow, and become responsible citizens.

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Question # 76

Tell me how do you use technology as a tool for learning in your classroom?

Answer:-

I usually use technology in one of two ways: for grading students in my classroom or developing electronic teacher assessment notebooks for every teacher in the school. In the former, I use EnGrade, an application that lets me put my grades online so students and parents can see my grading in real time. It also keeps me organized by tracking attendance and other assessments. In the latter, I develop online spreadsheets via Google Docs / Drive so teachers can get a good sense of their students' assessment information. In turn, they also have to enter their performance assessment grades so the teacher teams get a good sense of how students are learning in the class.

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Question # 77

Tell me what can you contribute to our school community/teaching?

Answer:-

I am the type of teacher who shares with my peers the classroom experiences that I have had, whether good or bad. I do this because I believe that this the best way for me and other teachers to improve our teaching. In this way, I get to share with them the best of my skills and, in return, they share with me the best of their skills. I also find that this is a very good way to learn how to handle situations that are difficult or unusual. The feeling of not being alone, but being part of a team of teachers, is what I can bring to the school. This will help build morale and a great working environment.

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Question # 78

Explain how can you bring interest among students for subject like science?

Answer:-

- * At the beginning of the year, set the tone as the science is creative, dynamic and fun
- * Wherever possible ask question to arouse curiosity
- * Use example of scientific discoveries often in your conversation
- * Take help of other science teachers for organising some science fair or seminar for students or group activities related to science
- * Look for collaboration with local scientific research institute even if it is for temporary
- * Take full advantage of lab facilities
- * Let student work freely with their practical's and let them use the trial and error method

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Question # 79

Tell me what are the changes you would like to see in student you have taught?

Answer:-

- * Active involvement in studying
- * Positive approach towards new ideas
- * Ready to learn new things
- * Clearly making progress in written and oral exams
- * High level on involvement in other curriculum activities

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Question # 80

Tell me what is the extracurricular activities high school teacher can organize?

Answer:-

- * Quiz competition based on subjects
- * Debate or discussion on subjects and out of subjects
- * Indoor and outdoor games
- * Drama and stage performance
- * Yearbook



* Volunteering in NGO's or field that student interest

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Question # 81

Tell me according to you what is the role of parents towards students in middle school?

Answer:-

- * Parents should be supportive
- * Parents should try to understand their child learning ability and motivate them to improve further
- * Parents should not oppose on their liking and dislike towards the subject
- * Parents should tell the student that it is ok to fail
- * Parents should encourage students to learn new things
- * Parents should track their progress in schools
- * Parents should build qualities like patience, hard work and practice

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Question # 82

Tell me what advice can you give to those who are new to the field of teaching?

Answer:-

The pressure you encounter from administration can be intimidating and challenging. Don't worry about being the perfect teacher - worry about your growth as a teacher. I have become the most successful when I have picked small things to change (group work, rubrics, assessments) and only focus on one thing at a time. Find a community of teachers to help keep you inspired. Blogs, book clubs and professional development are some of my favorites!

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Question # 83

Explain me what would your master teacher or cooperating teacher say about you?

Answer:-

My master teacher would say that I am incredibly energetic in teaching because I love what I do! She would say that I am the type of person who also goes the extra mile to help my students learn and comprehend their lessons regardless of their abilities. She would say that I also try to teach values that are important in life, including the value of discipline.

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Question # 84

Explain an example of differentiation in a classroom where you have worked?

Answer:-

Working with the sixth-grade teacher next door, we divided students for a math activity, based on the students' needs for review. I was able to work with students who really needed more one-on-one attention to attain higher scores. Even within my group, I modified how I presented information to students who needed more hands-on examples.

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Question # 85

Tell us in spite of work challenges, what do you most enjoy about being a teacher?

Answer:-

I love that everyday is a new day with new experiences. I learn from my students and have the opportunity to constantly grow as a professional.

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Question # 86

Explain me how have you used student data to inform planning or assessment?

Answer:-

It has become quite common for teachers to use pre- and post-testing to better determine what our students actually know before we plan and teach lessons. With pre- and post-testing, I can also monitor the growth of each individual student. It has worked really well with the eighth graders in the math classes I teach. Let me show you one example from my portfolio.

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Question # 87

Tell me how often is good to see students' parents?

Answer:-

A weekly meeting would be more preferable to monitor student progress, which is usually held by sending a weekly parent newsletter. For grades 3 and above, a daily assignment book will do this job as their parents has to sign on their daily progress report. On disciplinary subject, you can call and talk to their parents.

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Question # 88

Explain what aspects of your job are the most challenging?

Answer:-

The most challenging aspect of my job as math teacher and instructional coach is managing the different personalities and tasks I've been asked to perform.



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Question # 89

Do you know what is a linear equation what is it used for?

Answer:-

To calculate or solve problems involving distance, speed and time we used linear equation, it is also used to find solutions that involve weight, mass and density. Linear equation can be expressed as $Ax + By + Cz + \dots = D$.

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Question # 90

Explain how do you create a successful home and work balance?

Answer:-

Although I don't believe my life is balanced, I took on teaching spin classes as a way to structure 'me time' into my day. I love cranking up the music and encouraging my clients to be the best they can be for 45 minutes! It is very refreshing to have adult conversations and it's nice to burn off a little steam while on the bike.

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Question # 91

Tell me in what areas parents can offer their volunteer service?

Answer:-

Parents can offer their volunteer service in various field like lunch-room monitor, tutor, crossing the guard, library aid and concession stand worker for school events.

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Question # 92

Do you know what is Permutation?

Answer:-

An ordered arrangement of a group of object is known as Permutation, for example, the permutation of arrangement of 9 balls different in colours in 3 different rows can be done in $9P3 = 504$ ways.

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