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BS MST - Physics

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WHAT I ALREADY KNOW ABOUT THIS WEEK'S TOPIC	WHAT I WANT TO KNOW ABOUT THE TOPIC/S THIS WEEK	WHAT I LEARNED ABOUT THE TOPIC/S THIS WEEK	WHAT I SUGGEST TO LEARN MORE ON	HOW I AM FEELING THIS WEEK ABOARD WANDERLUST
I already know that there will be an orientation about the course proper and its requirements. I also anticipate that there will be a lot of readings, groupings, and analyzation about the syllabus and it makes me excited to go and explore more about the teaching of Math and Science.	I want to know the subject proper and I also wanted to analyze and comprehend the course syllabus and schedule so that I can manage and gauge everything from time to time. Moreover, I want to know the processes of assembling the e-portfolio, its nitty-gritty and possible contents. Apart from that I also wanted to know the course itself and my fellow MST classmates.	I learned that proper communication is important especially in this course demanding a group and individual effort between the students and the professor. I also learned that it is important to read the course guides and weekly guides thoroughly so that I will not be misled about specific tasks. Finally, I learned that Math and Science teachers are pivotal to nation building, which means that I should be putting extra effort in upscaling my skills through the help of this course.	I suggest to learn more on improving my time management skills. I also wanted to learn more on finding ways on how I can start my E-Portfolio earlier so that I will not be overwhelmed in due time. I should set a study and reading schedule from time to time in order to check whether I am hitting the learning outcomes of MST 123.	My feelings for this week involves excitement at the same time worriedness because I have doubts about myself on whether I can accomplish everything that is ideally written in the course guide. Apart from that I also feel proud that I have reach this level. I realized that more and more, I love the MST program more than ever not because of the subjects, the professors and the like but because the program in itself is beautiful, beneficial, practical, and pivotal to nation building.

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I already know that K to 12 is the new normal in education. I also know already that mathematics and science curriculum are ideally designed for students to become competent individuals for their chosen field. Also, I already have a background knowledge about the history of education in the Philippines.	I want to know more about what DepEd is capable of doing of. I also wanted to know the most salient points of the Professional Standards for Teachers since this is a new topic to me. I also wanted to be enlightened about the current situation about the education system in the country. More so, I wanted to know how I can be a part of the solution in eradicating educational crisis.	I learned that the goal of education encompasses imparting knowledge to prepare students for the real world. I also learned that Philippine Standards for Teachers is a public statement of what teachers need to know, value, and be able to do in their practice. I also wanted to add that the educational crisis is an ongoing problem in the Philippines. Due to that crisis, the quality of education is being compromised. To become part of the solution, I must continue to struggle in learning so that when I become a teacher soon, I will be as competent as I can be in terms of teaching math and sciences.	I suggest to learn more on the key cognitive concepts of RA 10533, the domains and strands of Philippine Standards for Teachers, and the framework of the K-12 program so as to prepare myself for the licensure examinations for teachers (LET). I also wanted to read more articles about the ongoing educational crisis in order to propose concrete ideas for combatting it.	I feel that I am overwhelmed this week since I did a lot of problem sets in other subjects but overall I am positively coping with the demands of other subjects especially the MST 123. I am also looking forward to the new topics since the next in line is all about the statement of teaching philosophy, that for me is an exciting one as I consider myself to be a philosophical person, not like Descartes nor Aristotle, but in my own little way of reflecting to meaningful experience and applying my learnings in the real world.

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I am already familiar with some leading philosophies and theories of education as I have already taken EDUC 102. I am also familiar with the creation of a personal teaching philosophy as I have created one for EDUC 102 and EDUC 144. Interestingly, my teaching philosophy grows over time of experience.	I want to know more about what are the theories and philosophies that can help me achieve my goal as a teacher. I also want to analyze the implications of the theories and philosophies to my own development as a teacher as I develop my own teaching, learning and modular designs. I also want to know the standard way of creating a personal statement of teaching philosophy.	I learned that the personal teaching philosophy is important not because the employers require it but because it can address, explain and measure the development of a teacher. I also learned that a teaching philosophy is an integral part in learning about a teacher, their willingness to reflect and change in response to the feedback from students and peers, and their future ideas and goals for teaching and learning effectiveness. Through the help of educational theories and philosophies, math and science teachers can be as effective as they can be, not just a teacher of the brain, but also of the heart.	I suggest to read more about the different philosophical bases of education in relation to teaching math and science subjects. I also plan to make time to read more on the roles of science and math in the curriculum by finding supplementary materials across the net in order for me to assimilate the learning materials fully.	Overall, I feel happy that I am making progress in every activities in MST 123 however small it is since a progress is still a progress. I am really terrible in managing my time but by making interim deadlines, I will make sure that I will accomplish everything one at a time so that I will not be overwhelmed. I am looking forward to the new topics for MST 123 this coming weeks and I plan to focus more on my assimilating the topics fully as I find them crucial for my future as a teacher.

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I am already familiar with some of the psychological bases of learning like the cognitive development of Piaget since we have expounded on this during my DEVC 40 classes. Moreover, I am familiar with some concepts like constructivism, connectionism and behaviorism however, what I only can remember are the basics of it.	I want to know more about the psychological bases of learning like how a concept is formed, what are the functions of schemas and how do we define intelligence in terms of the teaching of Mathematics and Science.	I learned that a concept is a unit of though that is related into meaningful system with a hierarchical structure. There are different types of concepts like concept by apprehension, descriptive concepts, and theoretical concepts. A concept is said to be formed using specific experiences into general rule or classes. On the other hand, I learned that a schema is a mental structure used to organize and simplify knowledge of the world. Finally, I learned that intelligence has different types like instinct, intuition, sensory and reflective and teachers should understand these concepts to better gauge their teaching.	I suggest to read more on the best teaching and learning practices based on research by reading other supplemental materials. I also wanted to expand my knowledge other psychological bases of teaching mathematics and science to sustain and solidify my knowledge on these concepts.	Overall, I am overwhelmed with the demands of my different subjects in class. My strategy is to do one thing at a time so as not to compromise the quality of my work for me not to become overwhelmed. I also feel that I can do all the learning task provided that I will be given an ample time to do all the necessary requirements for both preparation and creation of the task.

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I am somewhat familiar with the salient features of lesson plan as I have taken several EDUC courses like theories and principles of education and the course on evaluating learning outcome. I am also somewhat familiar with K to 12 as I have been a product of K to 12 education. Lastly, I am already familiar with some ideas of full remote learning educational program.	I want to know more about the other salient features K to 12 and the different types of lesson plan being used today. I also wanted to know how to transform a lesson plan into a PIVOT 4A I-D-E-A Lesson Exemplar for face to face and online learning mode.	I learned that K to 12 program covers 12 years of basic education to provide sufficient time for mastery of concepts and skills, develop lifelong learners, and prepare graduates for tertiary education, middle-level skills development, employment and entrepreneurship. I also learned and familiarized myself about the different types of lesson plan particularly the PIVOT I-D-E-A Lesson Exemplars which highlight that most essential learning competencies (MELCS) and to be guided by necessary teaching and learning adjustments to accommodate diverse learners.	I suggest to read more about the current trends about improving my skills on creating my own IDEA Lesson exemplar to prepare myself to student teaching classes. I would also wanted to learn more on developing my own style in teaching using the different types of lesson plan by comparing them on my own and by learning from other ideas.	Overall, I am excited to creating my own lesson plan for my own teaching demo, I am also excited to learning more about the teaching of math and science this coming weeks and so, to prepare myself, I need to adjust more, to read more and to plan more on how I can manage my time well so that no subject will be left behind as I learn and build from one subject to another.

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I am somewhat familiar with the some concepts in teaching but not exactly in teaching math and science. I already know how to teach generally but teaching science and math is a different thing. Apart from that I already know some traditional teaching approaches since I am a product of traditional pedagogy before K to 12.	I want to know how to teach science effectively. I also wanted to compare the traditional teaching and the new and improved way of teaching science. Moreover, I want to know how I can apply this teaching techniques in my own class.	I learned many things. To teach science effectively, the teacher should: 1) Build on the ideas that pupils bring to lesson as research suggests that young people encounter aspects of science all the time through their sensory experiences and social interactions. 2) Help students direct their own learning, this is also known as "self-regulation" which includes understanding the strategies for learning, monitoring their own learning, and being motivated to discover new things and complete work on time. 3) and the last one is using structured feedback. I, as a teacher should give a meaningful and structured feedback that I can apply especially in a classroom environment through great planning.	I suggest to read more on how to teach a specific science like Physics effectively by browsing other resources and books like from American Physics Teachers Association. Also I wanted to read the great articles in great depth, those articles who are in the Week 9-10 material so that I can solidify and equip myself for the upcoming teaching demonstration.	Overall, I am happy that I have gone through this week with a smile in my face. It is really a fulfilling journey to know the different approaches in teaching science. Looking forward, I am ready to know more on how to equip myself with more information about the teaching of math and science through different materials coming this week.

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I already know the differences between learning goals, outcomes and objectives. I also already know some classroom assessment do's and don'ts from my knowledge of EDUC 144. Apart from that, I already have the concept of measurement, assessment and evaluation. Lastly, I have already constructed an authentic assessment.	What I want to know this week is to expound my knowledge on different CATs that are suitable for the teaching of mathematics and science.	I learned that there are a lot of CATs that can be used in assessing students' level of understanding of a particular topic. I also learned that many CATs can greatly help educators in managing and evaluating their students' skills especially when teaching math and science. I learned that to assess declarative learning and the content of the subject, I must use techniques such as misconception check, muddiest point, minute paper, and empty outlines. On the other hand, on assessing skills in analysis and critical thinking, I should opt to use pros and cons grid, analytic memos and defining features matrix. There are a lot more that I have learned that I want to employ in my own class in the future.	I suggest to read more on the implications of different CATs particularly the study of Angelo and Cross (1993). I also plan to read other resources on classroom assessment techniques listed in the week 11 guide so as to expand my understanding of creating a learner-centered, teacher directed and mutually beneficial classroom assessment techniques.	Although I am overwhelmed due to heavy demands of this week, I am still looking forward and is excited for the remaining modules since the end of the semester is nearing and the topics get more exciting and more useful for our student teaching next semester.

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I already know a lot of classroom management strategies like understanding your students, practicing patience, setting effective limits, setting effective schedules, being aware of causes and behavior, engaging with the students, verbal and non-verbal praises, and encouraging initiatives, these are the things I learned in the previous topics I had.	Even though I know a lot about classroom management techniques, I do not know how to apply them swiftly since there is a difference between real practice and theory, and that is what I want to know this week. How to implement the classroom management strategies I learned effectively.	I learned that to implement classroom management strategies, I must model the ideal behavior. I should demonstrate good behaviors and study habits to teach students how they can and should act on their own even outside of the four corners of the classroom. This includes the use of polite language, maintaining eye contact and letting one another speak uninterrupted. I should also let students help establish class guidelines. Encouraging all students to help in promoting classroom expectations and rules will help establish a harmonious relationship among both teachers and students alike. Lastly, encourage initiative by allowing students to work ahead or study ahead.	I suggest to read more about how I can put the theories I learned into practice so that there will not be disconnect. I also wanted to explore more on how I can motivate students without a having to incentivize them a lot. Apart from that I wanted to read more books about how to teach physics that the students can both enjoy and learn.	I am satisfied with my work since I believe I did my best. I believe I made my best effort to participate in class, and that is a point of pride that I accomplished many things that I can incorporate many things in my teaching portfolio which is the final requirement of this subject. I wish to thank Captain Mom Rose for inculcating the what is the best for us to become not just a teacher with a brain, but also a teacher with a heart.