

**Math and Science Advisory Council Meeting**  
**May1, 2020 10:00am to 3:30pm**  
**Location: Zoom Conference Call through secured access.**

**Minutes**  
**Approved 9/11/2020**

Present :Wanda Bulger-Tamez, Mollie Parsons, Bernadine Cotton, Glenda Leonard, Dave Dooling, Anna Suggs, Ling Faith-Heuertz, Tanya Rivers, Marcia Barton, Yanira Vazquez (M&S Bureau), Safiq Chaudhary (M&S Bureau), Jennifer Hooten

Absent: Scott Robbins

1. Call to order at 10:11 a.m.
2. Review of AG Balderas document
3. Review of the meeting agenda. (Ling will need to leave the meeting by 2 pm and Marcia will take over recording minutes. Ling and Marcia are subbing in as meeting scribes for Scott who is absent from the meeting.) Molly will be in and out of the meeting as needed to start classes for early learning. Yanira will need to hop off the meeting and come back in the afternoon. Discussion about additions to agenda. Under Item 9 questions//topics regarding learning in COVID 19 times was added as a topic. Vote to accept the addended agenda was accepted unanimously.
4. Review of January 2020 meeting minutes. Vote to accept the meeting minutes was unanimously accepted.
5. Discussion about MSAC membership. The group is in need of filling vacant spots in higher ed and in representing our Native American students. Tanya has drafted a recruitment letter. Tanya made a motion to request that each MSAC member look at sending the recruitment letter to one person they know to apply for MSAC membership. All agreed to reaching out to at least one person they know for recruitment.
6. PED Updates. Written document shared to the group via Google Drive. Questions answered regarding Assessment Data, where to find the guidance and tip documents, and how Data will not be available based upon Assessments due to when the COVID 19 restrictions went into place. There will be data available on what classes were taken in Math, Science and CS. The Math and Science Bureau has been working on online resources for students and parents and as restrictions continued from March until the end of the school year additional resources and tools were created and put up on the PED website.

Discussion about concerns in how Math and Science skills and maintaining retention in skills may see an impact in ability to retain them. Science seems to be easier to create resources that help with family engagement. Math is an area identified that a fixed mindset about this subject and parents and students lack of confidence in building these skills is where to target support. One way to do this is to meet regularly with students and to stay in contact with parents weekly if possible. Discussion about the impact of how students and teachers will be affected if virtual classrooms must be utilized at the beginning of the 20-21 school year, it will be daunting for students who are new to a teacher since it will be a challenge to build relationships with students in a non-face-to-face setting.

Discussion about how this year's budget is affected due to the COVID 19 restrictions and the depression of our economy. PED is in the process of recouping any unused funding for professional development. Everyone is waiting to see what will happen in the emergency short session when it is able to happen.

7. MSAC Report. Discussion about what priorities to focus on. Break out rooms convened. Group Sharing on what type of information needs to go into this next report occurred. Some of the changes we are seeing due to the pandemic can be positive and we can look to see how we can make some positive changes, for example we have family engagement on a much larger level now.

Small group share out topics included:

- family engagement
- teacher professional development and support
- student stories during the time of COVID and how it has affected their learning
- adaptations that have worked for teachers
- students and out of school time groups.

We will need to come to an agreement on the outline of the report before moving forward.

8. Break for lunch: 11:45 - 12:30
9. Working Group Share Out with Discussion and Feedback
  - Stakeholders Letter - review and discussion about how to disseminate. Items added to the letter were adding an invite to Survey Monkey on what should be included or excluded in the next report, and collecting stories from their experiences in this last year.
10. Conversation w/ Division Director Costales
  - Introductions

- Shafiq gives a Math Framework update
  - 5 MSAC members are actively involved in this work along with other representatives from across the state
  - Framework group has identified 6 critical components of effective math learning programs
  - Subgroups working currently on developing outlines of critical components
- Director Costales feedback on Framework
  - Tone seems balanced--supportive and strong, that gives sense of importance
  - Love 6 components--Consider emphasis on pedagogy and high quality practices - changes needed to meet the demands of CCSS-M and Standards for Mathematical Practice (SMP);
  - Ensure integration of instructional strategy to support SMPs - it's as important as content standards
  - Reasonable that timeline is to be adjusted
- Feedback on report brainstorming
  - Report could show us the shiny spots
  - Report could spotlight some of the inequities that have become so evident during this time
  - Themes from continuous learning plan--time to focus on essential learning, connect to what they already know and extend-->could this model become a long-term model? Opportunity to examine those 'essential learnings' and what do those look like in the learning path of students
  - Tease out the 'gold nuggets' in the components of the COVID-19 response and propel them into the future to really change the field.. For the better :)
  - How fast educators were able to pivot
  - Equal access to math & science education in this time--did the response compound the issues of the access and equity divide
  - [Importance of Social emotional connections](#)
  - [How do we support math/science teachers in developing relationships and connections with students in a tech based learning environment](#)
  - [What are the places that we can highlight the bright spots](#)
  - [Also, show the places where there are gaps \(inequities\) in access to devices and connectivity.](#)
  - [How can creating access \(to technology\) when schools open up support learning](#)
  - [Continuous learning - extend and support essential learning \(How can](#)
  - [Emphasis on relationship \(teacher to student and student to student\) and how these relationships support math/science learning.](#)

- How can education change in the future? Essential learning and relationships; how can SMP support social emotional aspects of math; building confidence and positive math identities.
- Flexibility and extension of grace - best learning happens through mistakes - knowing that helps us to extend grace to one another.
- Along with stories of success, we also need to shed light on the need for equitable access for all students to STEM learning and fields, technology, social emotional learning (SEL), connectivity, basic physical supplies for learning ...the various aspects that create the divide.
- Great time to be advocating for teachers - power of schools and the incredible work of teaching - deeper level of respect for the teaching profession
- AP data available - those who signed up in fall and how many took the test in spring.
- Can we gather data from parents to tell a more complete story? May be able to tap into data from the Culture Bureau.
- Data from IM (Illustrative Math) and Science pilots
- Informal science has filled in gaps in the past - how are non profits going to survive with funding cuts?

## 11. Planning Next Steps

- To Do list:
  - All: send one recruiting letter by the end of May
  - Wanda, Dave, Tanya (and anyone else): develop survey to be included on the stakeholder letter asking for direction for this year's report--are we representing you well?
  - Wanda, Tanya (and anyone else): develop report chunks incorporating Division Director's comments and brainstorming sessions from today. Don't forget about the MSAC strategic plan/framework; Don't forget about computer science in the report (pillars analogy)
  - Wanda: Doodle poll for next meeting to take place in mid to late June
  - All: add to the 'Ideas for June Meeting' document in the 'June 2020 Meeting' folder.

12. Sunshine and Blues via Zoom chat (see below for chat, includes helpful links to documents and resources)

13. Meeting adjourned at 3:32p

