

# IMPLEMENTATION OF NEW SCIENCE STANDARDS – A PRACTITIONER ANALYSIS

What are the “put it on the ground” implications?



# Significant Considerations for Implementation

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- Standards Adoption
- Instructional Materials
- Teacher Training
- Testing EOC/NMSBA?/Other Competency?
- Timelines

# Standards Adoption – Step 1

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Once the adoption of the standards is completed, and published the process of implementation will begin. A first step will be to construct and publish a “framework” for the standards that will inform the actual instruction model for the standards. This framework has often been an effort by teachers and other professional in the field that extends for 6-12 months. This framework informs the teaching staff of the full expectations of what is to be delivered within the classroom. It precedes the adoption of textbooks and other instructional materials.



# Textbook Adoption– Step 2

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Textbook adoption has two distinct parts: 1. Review and Adoption of a Range of Textual and Supportive Instructional Materials at the State Level; and 2. Review and Adoption of the specific textual materials and supportive instructional materials by the local district/charter school.

Generally, the State Adoption requires a year, and the subsequent adoption by a district or charter school follows on and takes from 2-3 months to a full year.



○\* Includes Dual Credit

# Determination of IM Funding

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- Once the State Adoption is Completed it is necessary for the IM Budget to be Set and an Appropriation to be made by the Legislature.
- There has been a significant shortfall of funding in the GAA (see chart) over several years
- It is likely that the “cost of materials” for the adoption will significantly overrun the available \$25 million (set aside) IM Appropriation. Underfunding this adoption will substantially curtail implementation.

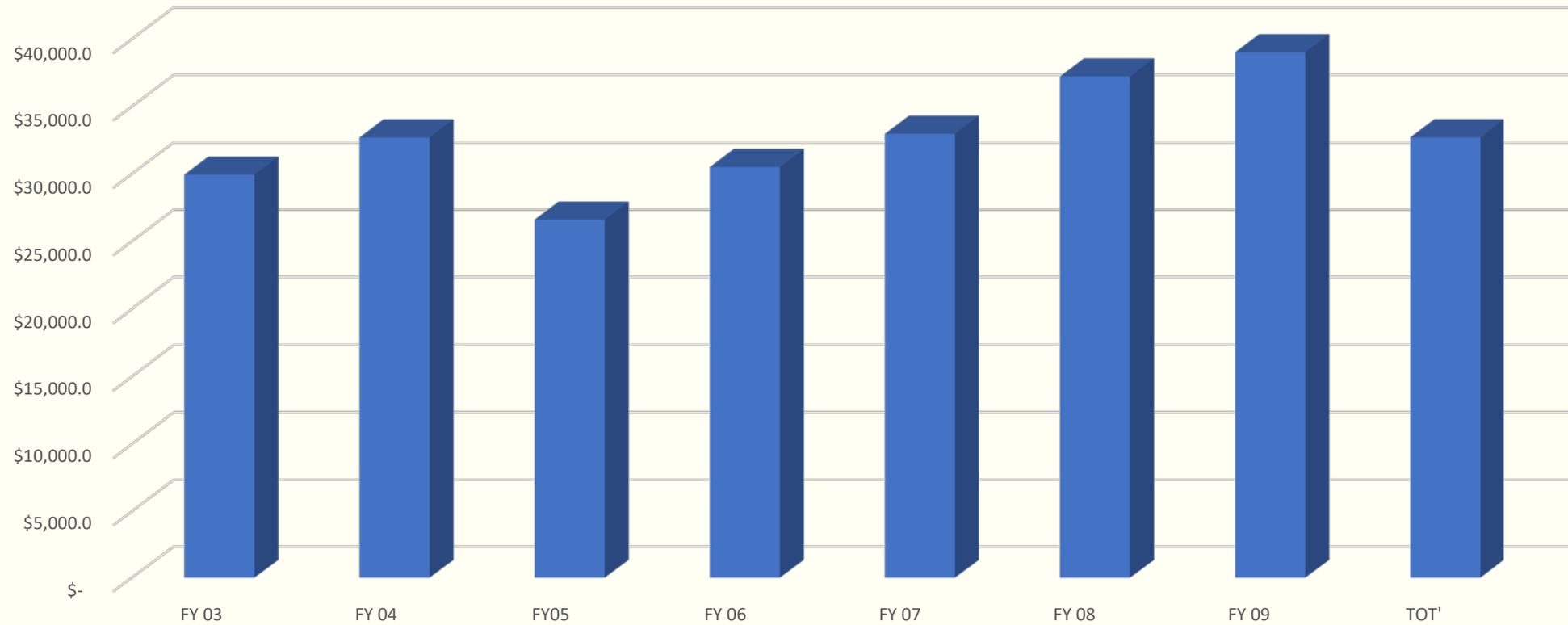
FY 03	\$29,940.0
FY 04	\$32,700.0
FY 05	\$26,600.0
FY 06	\$30,500.0
FY 07	\$32,965.4
FY 08	\$37,224.9
FY 09	\$39,020.0
FY 10	\$16,577.9
FY 11	\$14,603.2
FY 12	\$15,092.8
FY 13	\$26,975.8
FY 14	\$20,975.8
FY 15	\$20,364.6
FY 16	\$21,900.0
FY 17	\$20,650.0

# Comparison of Funding FY 03 – FY 09 GAA

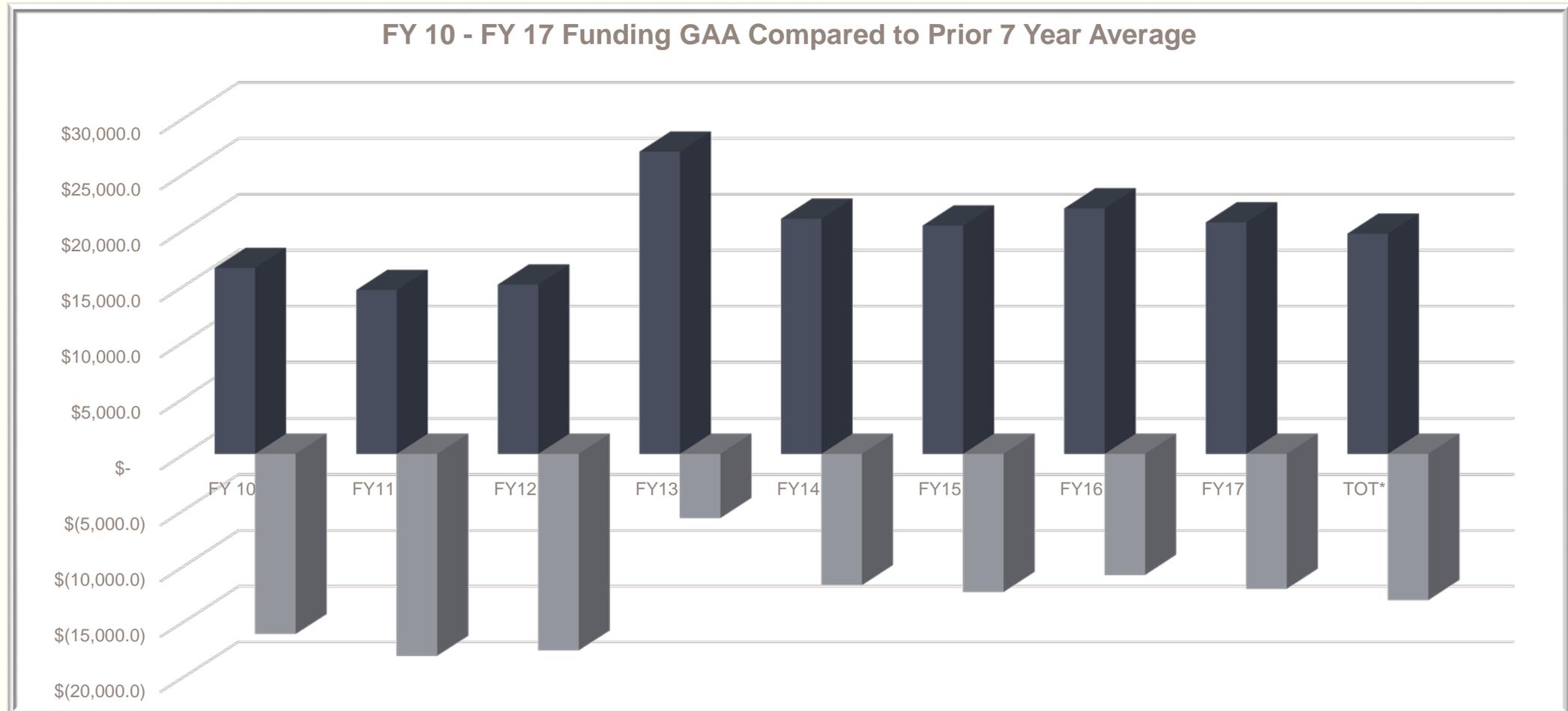
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FY 03 - FY 09 IM Funding GAA



# Comparison of FY 10 – 17 And Average Prior 7 Year Funding



# Teacher Training– Step 3

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To effectively implement the new Science Standards and new Science Framework it is necessary to train every science teacher in the State of New Mexico. It must be decided if that training is a State or Local responsibility.

Either way, it will be necessary to take the training to each teacher of science (in their field) and train them on the new framework, standards and instructional materials before they can effectively begin instruction.

It must be noted that this PD will have costs for the training time, materials, travel, and trainers.



# Testing – EOC/NMSBA?/Other Competency?– Step 4

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A number of decisions will be necessary regarding the rewriting of the testing protocol around the new science standards. This will include the production either locally or at the State level for approved EOC Tests, the probable rewriting of the NMSBA and other Competency Evaluation materials.

Since the evaluation of both student and teacher competency in the new curriculum is pivotal to defining the quality of instruction. This must be developed prior to the implementation of the curriculum.





# TIMELINES MATTER -

Don't get the cart before the horse....

## Timeline From the “Eyes of the Field”

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Standards Adopted	Fall, 2017
Development of Framework	Spring-Summer, 2018
Textbook Adoption (State)	Fall, 2018 – Spring, 2019
Local Textbook Adoption	Spring – Summer, 2019
Teacher Training	Fall, 2019 – Summer 2020
	Follow On – Summer, 2021
Testing Development	Spring, 2019- Summer, 2020
Implementation First Date	Fall, 2020
First Valid Testing	Spring, 2021