

Science:

6. Discussion of Proposed Revisions to 19 TAC Chapter 112, Texas Essential Knowledge and Skills for Science

(Board agenda page I-16)

Public testimony was provided by the following individual:

NAME: Steven Ward, Sr.

AFFILIATION: Self

Ms. Martinez provided an update on the work of the science TEKS review work groups. She highlighted the draft of recommendations from Work Group B for four high school courses and the draft of recommendations from the work group on scientific and engineering practices. The committee provided the following direction for the work groups.

General

- Organization of high school courses does not need to be consistent
- Kindergarten through grade 8 TEKS should be consistent in terms of strands and organization
- The board's intent is to stay away from Next Generation Science Standards (NGSS) and the TEKS should not be an exact replica of NGSS
- Significant changes should not be made unless there is a clear benefit for the change

Scientific and engineering practices

- Consider renaming scientific and engineering practices to scientific processes and engineering connections and modifying language of the standards to better differentiate them from the K-12 Framework
- Revisit engineering practices and add standards that require student to produce an end product
- Revisit the considerable emphasis on phenomena and argumentation
- Ensure standards are written in a manner all teachers can understand and that are developmentally appropriate
- Historical context is important; consider adding these standards back in
- Reinsert the language from current high school student expectation (3)(A)

Chemistry

- Reconsider removal of chemical and physical properties and chemical and physical changes