

STEM Design Principles – NM STEM NETWORK

“Correct principles are like compasses: they are always pointing the way. And if you know how to read them, we won’t get lost, confused, or fooled by conflicting choices and values. Principles are self evident, self validating natural laws. They don’t change or shift. They provide ‘true north’ directions to our lives when navigating the ‘streams’ of our environments. Principles apply at all times in all places. They surface in the form of values, ideas, norms, and teachings that uplift, ennoble, fulfill, empower, and inspire people. The lesson of history is that to the degree people and civilizations have operated in harmony with correct principles, they have prospered.” ----Stephen R. Covey

The NM STEM Network is a collaborative endeavor formed to transform Science, Technology, Engineering and Math at all levels of education in New Mexico

Activities of the NM STEM Network will have the following attributes:

INCLUSIVITY

Understanding of STEM will be desirable and attainable for all New Mexico’s citizens.

SCALABILITY

Expansion of successful activities will be facilitated if systems are designed in anticipation of growth and future needs.

SUSTAINABLE PARTNERSHIPS

True partnership and collaboration among all the stakeholders committed to this transformation of STEM is necessary for success and long term sustainability

REAL WORLD RELEVANCE

STEM education programs will emphasize teamwork and project-based learning based on problems and issues we face in our everyday lives and potential futures, with a focus on the synergies between enhanced literacy and STEM

TRANSPARENCY

Operations and data developed will emphasize openness and portability in order to encourage the free flow of information and maximize opportunities for research and further development.

ECONOMIC DEVELOPMENT

Network activities should have a “line of sight” to the impact on student career pathways (HS degree, STEM credentialing, 2 year degree, 4 year and post-graduate degrees, and employment), as well as impacts on the local, regional, state economy.

AFFORDABILITY

Network activities will be designed and executed within the financial constraints of the New Mexico education system infrastructure, with emphasis on reuse and leverage of existing program concepts and designs. An exception will be those activities that are specifically funded by grants or donations.