

STEM Professional Development Model Implementation TEAM

Lynne Campbell, Chair; Roger Blickenderfer; Lisa Chizek; Teresa Finken; Julie Graber; Jodi Herbold; Jeff Herzberg; Melissa Hesner; Kris Kilibarda; Rob Kleinow; Adah Leshem; Yvette McCulley; Mark McDermott; Kathy McKee; Nancy Movall; Tami Plein; Kim Rost; Sharon Rosenboom; Chris Soldat; Jay Staker; Steven Triplett; Mike Zeller; Albert Wiggins.

STEM Professional Development Implementation Team

Vision

STEM PD ensures every Iowa child will have the opportunity to engage in quality STEM learning experiences

Mission

To foster partnerships, develop leaders, and engage all stakeholders in STEM professional development that is systemic but differentiated based on professional needs and interests and is authenticated by multiple metric formats that includes:

Criteria for STEM Professional Development

Pedagogy

1. Utilizes research-based instructional practices
2. Fosters the development of argument-based classrooms (ABC)
3. Changes the focus of the learning environment from teaching to learning
4. Includes defining evidence of competency and developing assessments that measure learning
5. Differentiated to provide for multiple access points for all learners

Content

1. Promotes conceptual understanding
2. Couples rigorous academic concepts in a real world context

Learning Community

1. Engages all stakeholders (Formal PK-16, CC, HE, business, nonformal, informal, DE, AEA, LEA, students, parents)
2. Provides opportunities for leadership and collaboration that promote systemic change
3. Includes sustained support for implementation
4. Prepares learners that are college or career ready

STEM Professional Development will be validated by multiple metric formats.