TPACK, (or the Technological, Pedagogical, Content Knowledge Framework) is a model of instructional technology that can be applied to the STEM mentoring toolkit. This section includes a brief model, along with resources for TPACK.

Technological Pedagogical Content Knowledge (TPACK) Model

TPACK Explained

Matthew Koelher explains the TPACK framework, along with the history.

TPACK Learning Activity Types (LATS)

Developing TPACK with the Learning Activity Types
The Learning Activity Types were developed by Judi Harris & Mark Hofer for assisting teachers in planning student activities with technology. The LATs were created for K-6 literacy, mathematics, music, physical education, science, secondary English Language Arts, social studies, visual arts and world languages. They are very important to consider when integrating technology into different content areas, and in the connections teachers can make with STEM. This is an important resource to consider when considering planning with activity types, especially when considering how technology can be central to STEM mentoring and teaching practices.

Learning Activity Types - Online Short Courses for Teachers
Online short courses were developed for pre-service and experienced teachers, as well as resources and materials that can be shared.