My NASA Data

Defining STEM through MND

STEM holds different meanings to users in the education communities. My NASA Data offers a unique perspective on STEM Education as we focus on data literacy within an Earth Systems framework. See the table below for a description of how S, T, E, and M are addressed throughout the various *My NASA Data* resources.

Technology Engineering Mathematics Science MND uses a systems-approach to MND features data collected from This practice involves an iterative MND offers resources for payload technologies (sensors) understand Earth Science process that engineers use to analyzing, interpreting, and phenomena associated with NASA Earth guide problem-solving; this modeling of real-world geoscience practice is essential to NASA's Science Missions. NOTE: MND data from each of the spheres Target NGSS Disciplinary Core mission success. NOTE: My NASA learners are not developing within the Earth System. Ideas: technologies, but rather engage in Data does not expressly integrate Earth and Human Activity technology to develop research engineering design in our Target NGSS Science and Earth's Systems questions, model phenomena, & resources. MND recognizes that **Engineering Practices:** Earth's Place in the Universe extract meaning. Engineering enables NASA's Analyzing and Interpreting Data Earth and the Solar System efforts to advance science and Using Mathematics and Earth Materials and Systems Target NGSS Science and Plate Tectonics and Large-scale Computational Thinking **Engineering Practices:** Systems See the STEM Career Connections Asking Questions and Defining The Role of Water in Earth's Target Common Core Mathematics for job profiles and NASA Problems Surface Processes professionals whose work supports Domains: Weather and Climate Developing & Using Models NASA's goals of better Measurement & Data (Grades 3-Biogeology Obtaining, Evaluating, & understanding the Earth System. Natural Resources Communicating Information MND features the important work Statistics & Probability (6-8) Human Impacts on Earth that engineers and related careers Systems Statistics (9-12) contribute to NASA missions. Global Climate Change Number & Quantity (9-12) Target NGSS Science and **Engineering Practices:** Asking Questions and Defining Problems Constructing Explanations Engaging in Argument from Evidence