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Federal Agency (or non-fed sponsor requiring a DMP): NASA

Project Title: University of North Texas Professional Development Dissemination Collaboration

Agency grant number: 80NSSC21K1171

Data Management Plan

The products generated by the project would include: technology-infused space science / heliophysics learning activities aligned to learning engagement theories, teacher and mentor training materials, multiple-measure assessments, and multiple assessments of learning to include: multiple choice tests, questionnaires and written responses to posed questions. We will collect data from middle school students on the effectiveness of the activities we are using with the project for outcomes assessment.

We will save quantitative data in excel files and use SPSS for the analysis. All data will be housed by the Institute for the Integration of Technology into Teaching and Learning (IITTL). All data collection procedures will be reviewed and approved by the University of North Texas' Institutional Review Board. No data collection will begin until all approvals are in place. All data will be coded so that no individual participant can be identified.

This proposal is being submitted through IITTL, a research center sponsored by the University of North Texas. All instruments developed and used by IITTL are available for public use online. Since we are collecting data from human subjects, individuals seeking access to specific project data would need to complete a request for data access through the University of North Texas' Institutional Review Board. Requests for access to data from individuals or organizations outside of the university would be handled by the IRB on an individual basis. Requests for data access, which would consume less than 30 minutes of an administrative assistant's time, could be handled by IITTL's staff. More extensive requests for data would be charged at \$50 per hour.

Data would be available for external use at the conclusion of data collection, organization, and analysis by project staff. The project would retain the right to analyze data before opening the data for general use. IITTL will maintain the data set for five years after the completion of the project. The data will be maintained on a secure server. Hard copies of any data collected will be maintained within a secure environment within the IITTL offices.