Endeavor
STEM Teaching Certificate Project

Math Connections Rubric
Mandatory 5 Unit Development

Instructional Design	Description of work earning Full Credit	Score
Integration of NASA Resources/Data	Project provides access to an excellent resource with mathematics for science educators (or vice-versa if appropriate). Infusion of resources, particularly NASA content and assets are well integrated.	10/15
Sources	All sources are cited properly in APA format.	0/5
Statement of Purpose	Statement explains: 1) how will integrating math or science enhance your students' understanding of each? 2) how is this unit developmentally appropriate for your students? 3) what skills will students develop in math? Specifically tie skills in with your thematic unit of study. 4) describe of how lesson provides for differentiation in content, process and product.	0/8
Title	Title of the Unit Provided	2/2
Length (time)	Time needed is indicated	0/2
Grade Level	Grade level or range stated	0/2
Standards	CCSS and NGSS Standards addressed in the unit (e.g., particularly math, include all subject areas addressed). Copy and paste full text of standard.	5/5
Essential questions	Essential questions addressed in the unit are clearly written and provide and underpinnings of the unit/project, demonstrating math connections.	8/8
Objectives	Objectives are measureable and address Webb's Depth of Knowledge.	8/8
Materials	List of materials required to facilitate the lesson is detailed and clear to support successful replication of the lesson.	0/5
Lesson Activities	Written in 5E model with specific details about what **teacher** and students do in each "E" **Well thought out student expectations, consider your role as a teacher & include how you can clarify common misconceptions.**	25/30
Assessment/ Rubric	Assessments are well-aligned with objectives and clearly appropriate to determine students' mastery of project. Considers Diagnostic, Formative and Summative Assessment strategies appropriate to measuring	10/20

	objectives. **You state that you will give exit tickets, quiz, etc & I do not see them**	
Written Convention	All aspects of the project are clearly and very well written.	10/10

Instructional Design Points: 120 possible points / 4 = 78/4

Total Points Earned (max 30): 19.5

Kurtis, I love your overall concept of teaching scales through the planets & Mars! You are lacking a lot of detail for me to be able to see how you are connecting topics of math/science and mastery by your students. You also have a misconception of sorts with the Mathematical Practice (8 overarching themes that need to be in your lessons) & CCMS (many standards broken down by grades and topics Numbers & Measurement, Algebra, Geometry, Statistics, etc similar to your Kentucky standards