2021-2022 Mabry CCC Lesson Plan

CCC Meeting		CCC Norms	CCC Meeting Guide
Subject:	HS Physical Science	• Use time wisely • Share ideas with on-level and AC science as appropriate • Stay on top of grading and data collection	1. What do we want students to learn? • Lesson Plan 2. How do we know if students learned it? • Create Common Assessments • Review & Assess Data 3. What do we do when students don't learn it? • Discuss Possible Strategies 4. What do we do when students learn it? • Celebrate! & Discuss Ideas
Unit:	Atomic Structure and Periodic Table (Unit 3)		
Week of:	October 4		
Members:	Leigh Mickalonis *** * Facilitator / **Note-taker		

WHAT DO WE WANT STUDENTS TO LEARN?					
	MONDAY	*TUESDAY*	*WEDNESDAY*	*THURSDAY*	*FRIDAY*
Learning Targets	Today I am... using Minecraft to explore chemistry So that I can... explain how atoms of various elements are different In order to... understand how atoms of different elements interact with each other.	Today I am...collaborating with a group to build a Minecraft structure So that I can... explain how atoms of various elements are different In order to... understand how atoms of different elements interact with each other.	Today I am... researching an element on the Periodic Table So that I can... explain how atoms of various elements are different In order to... understand how atoms of different elements interact with each other.	Today I am... learning the basic layout of the Periodic Table So that I can... explain how atoms of various elements are different In order to... understand how atoms of different elements interact with each other.	Today I am... learning about isotopes So that I can... explain how there are different forms of the same element In order to... understand how atoms of different elements interact with each other.
Content Standards	SPS1.a, SPS2	SPS1.a	SPS1.a, SPS1.b	SPS1.a, SPS1.b	SPS1.a
Opening	Introduce Minecraft Assignments	Bridge from Yesterday's Solo Activity to Today's Group Build	Minecraft Reflection (MS Forms)	Nobellium atom What happens if we change the ingredients?	Lithium Atom
Lesson Plan	Independent Exploration of Minecraft: Education	Students work in collaborative groups to	Students are assigned an atomic number.	Introduction to the Periodic Table	Isotopes -Notes -Brainpop

	Edition Chemistry Tutorial World Element Constructor Compound Creator Materials Reducer	design and build a structure in Minecraft. Structure must represent an atom of a teacher-assigned element	Use Web sites and books to research their element. Students will use their research to create superhero based on their element.	- PT Song (ASAP Science) - PT Overview - Rows vs. Columns Worktime on Superhero Project	-Table Talk Groups Present Minecraft Worlds
Closing	Partner Share	Export World		Which Atom is Which?	Comparing Worlds

HOW DO WE KNOW IF STUDENTS LEARNED IT?					
Assessment (Current or Future)	☐ Formative ☐ Summative	☐ Formative ☐ Summative	Minecraft Reflection ☒ Formative ☐ Summative	Superhero Project due Monday ☐ Formative ☐ Summative	Superhero Project due Monday ☐ Formative ☐ Summative

WHAT DO WE DO WHEN STUDENTS DON'T LEARN IT?					
Differentiation and Specialized instruction & Strategies					

WHAT DO WE DO WHEN STUDENTS DO LEARN IT?					
Differentiation and Specialized instruction & Strategies					

STEAM ELEMENTS					
Engineering Design Process Stage	☐ Ask ☐ Imagine ☐ Plan ☐ Create ☐ Improve ☐ Share	☒ Ask ☒ Imagine ☒ Plan ☒ Create ☐ Improve ☐ Share	☐ Ask ☐ Imagine ☐ Plan ☐ Create ☒ Improve ☒ Share	☐ Ask ☐ Imagine ☐ Plan ☐ Create ☐ Improve ☐ Share	☐ Ask ☐ Imagine ☐ Plan ☐ Create ☐ Improve ☒ Share
STEAM Connections (2 or More)	☐ Science ☐ Technology ☐ Engineering ☐ Art ☐ Math	☒ Science ☒ Technology ☒ Engineering ☒ Art ☐ Math	☐ Science ☐ Technology ☐ Engineering ☐ Art ☐ Math	☐ Science ☐ Technology ☐ Engineering ☐ Art ☐ Math	☒ Science ☒ Technology ☒ Engineering ☒ Art ☐ Math
Cross-Curricular Connections	☐ ELA ☐ Math ☐ Science ☐ Social Studies ☐ Foreign Language	☐ ELA ☐ Math ☐ Science ☐ Social Studies ☐ Foreign Language	☐ ELA ☐ Math ☐ Science ☐ Social Studies ☐ Foreign Language	☐ ELA ☐ Math ☐ Science ☐ Social Studies ☐ Foreign Language	☐ ELA ☐ Math ☐ Science ☐ Social Studies ☐ Foreign Language
STEAM/Cross-Curricular Standards		MA.PR.2 Develop and refine artistic techniques and work for presentation.	MA.PR.2 Develop and refine artistic techniques and work for presentation.		MA8.RE.2 Interpret intent and meaning in artistic work
STEAM/Cross-Curricular Vocabulary		Invention Personal Choice Problem-solving Production	Artist Statement Invention Personal Choice Problem-solving Production		Concepts Ideas Subject Matter
Real-world Connection					
Career Connection					