## Emerson Middle School Integrated Lesson Form

Title: Cell organelles

Lesson Description:Students will investigate the cell organelles with an emphasis on structure and function inside the cell.

Educator	Name: Heather Reames A+ School: EMS Grade level/subject area: Science 6		
Curriculum & Arts	Overarching Concept:Living things from bacteria to humans have common characteristics, organizational structures and needs. What is the importance of structure and function in living things?  Essential Question(s) and/or Focus Question(s):  What is the importance of structure and function in living things?  What are the organelles and what does each do for the cell?  Can I identify the types of cells and structures associated with each type? (Prokaryote vs. Eukaryote and Plant vs. Animal)		
	Disciplines Addressed:dance x musicx_visual artsx_creativitydramax_readingx_writingx_problem solving _x_language arts _x_scienceother:x_technology xmathsocial studiesx_collaboration  Curricular connections/instructional objectives: (state standards, etc.)		
Enriched Assessment	Ways to assess/evaluate students' understanding during and at the conclusion of the lesson (formative and summative):  Common assessment and cell project		

	Note any unexpected outcomes with students and how they affected next steps:	
Collaboration	How will collaboration be used: (between students, fellow teachers, or anyone with potential expertise):  Students will work in lab groups for some of the activities.	
Multiple Learning Pathways	Multiple Intelligences addressed within lesson: (check all that apply)  _x_bodily/kinesthetic	
Infrastructure	Classroom Infrastructure/Setup: Timeframe (example: length of unit, number and length of lesson(s): 8 school days Space: Classroom and ILS Material: Google Expeditions, I-Pads, Shiver App, Resources/books/websites/other information sources:	

Experiential Learning & Climate	Steps/Process: (You may share by using this form, video, photostory, powerpoint, etc.) Please attach rubric, checklist or other assessment tool, if applicable. Daily plans pasted below	
ISTE standards	Check all that apply:  xEmpowered learner _x_Knowledge constructor _x_Computational thinker _Global collaborator	Digital citizen xInnovative designer _x_Creative communicator

September 14 - Claim and Evidence form for living things are made of cells and a characteristic of living things - Amoeba sisters's video on Characteristics of Living Things <a href="https://www.youtube.com/watch?v=cQPVXrV0GNA&vl=en">https://www.youtube.com/watch?v=cQPVXrV0GNA&vl=en</a>

and Characteristics of living things fill in the blank

September 15 Cell organelle Bellwork - Cell Introduction video - https://www.youtube.com/watch?v=8llzKri08kk&t=3s

Begin Cell organelle slide show

September 16 - Slide Show is due - How Big is it Activity to discuss the size of cells

September 17- ILS - Google Expedition - Inside a cell and types of cells - Students will review organelles and discuss structure and function in a virtual reality lesson

September 18 Organelle Sort and The cell is a school analogy - Color Shiver Cells and make a key

September 21 ILS - Use i-pads for shiver cell review - Chromebook assignment from the 3D Science book on cells - 3D pens for cell organelles

September 22 Start Cell projects - Students will choose which project they want to complete and gather materials and start.

September 23 last class day to work on cell projects

September 24-

September 25-

September 28 - Test Review

September 29 - CFA - District - Wide Test over Living Things Characteristics and Cell organelles