Lesson Plan Template

Day 1							
Grade: High School				Subject: Biology			
Materials: notebook				Technology Needed:			
Instructional				Guided Practices and Concrete Application:			
 Direct Guide Socrat Learni Lectur 	instruction d practice cic Seminar ing Centers re		teaching/collaboration/ cooperative learning Visuals/Graphic organizers PBL	 Large group activity Hands-on Independent activity Technology integration Pairing/collaboration Imitation/Repeat/Mimic Simulations/Scenarios Other (list) Explain: 			
 Techn integra Other 	ology ation (list)		Discussion/Debate Modeling				
Standard(s) HS-LS1-2 Develop and use a model to illustrate the hierarchical organization of interacting systems that provide specific functions within multicellular organisms.				Differentiation Below Proficiency: Above Proficiency: Approaching/Emorging Proficiency:			
Objective(s) Students will be able to identify what makes a cell a cell. Students will be able to compare and contrast eukaryotic cells and prokaryotic cells. Students will be able to identify the different organelles of animal cells. Bloom's Taxonomy Cognitive Level:				Modalities/Learning Preferences:			
Classroom Management- (grouping(s), movement/transitions, etc.) Students will complete bell work independently. The other questions will be turn and talk with partner and whole group discussions.				Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.)			
Minutes				Procedures			
	Set-up/Prep:						
5-7	 Engage: (opening activity/ anticipatory Set – access prior learning / stimulate interest /generate questions, etc.) Bell work: To introduce the unit of cells I will start with asking a discussion about what students think a cell is and how to classify something as a cell. This will be their bell work question for the day with discussion to follow. 						
35	Explain: (con Introduction a - Histor - Prokan - Cell on	ncej ind y oi y oi y ot rgai	ots, procedures, vocabula overview of unit. f the cell ic vs. eukaryotic nelles	ry, etc.)			

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	- Plant vs. Animal Cells					
	- Cell membrane and transportation of	molecules across gradients				
	Discuss the history of the cell and how far o	ur technology has come. We will start notes on cell				
	theory and history.					
	Use Childed Nates					
	Discussion notes (3.1 of book)					
	Robert Hooke by looking at cork					
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	How can looking at cork be proof there are cells in things?					
	Basic unit of life					
	Produced by other living cells					
	All organisms are made of cells					
	G C C C C C C C C C C					
	Are even chairs made of cells? How do we prove what is and isn't made of cells?					
	Plant cells discovered by Matthias Scheiden					
	Denote timeline of scientific discovery of cells					
	If cells make up every living thing, what ma	kes something alive?				
	Chemical uniqueness					
	Complexity and hierarchical organiz	ation				
	Reproduction					
	Possession of genetic program					
	• Metabolism					
	• Development					
	Environmental interaction					
	• Movement					
8-10	e/application with relevant learning task -connections					
	from content to real-life experiences, rend	cuve questions- probing or claritying questions)				
	How do we think scientists found cells if they are so small? What are some examples of things that have cells? How do you know?					
	Review (wrap up and transition to next activity):					
	Tomorrow we will be looking at prokaryotic and eukaryotic cells.					
Formativ	ve Assessment: (linked to objectives)	Summative Assessment (linked back to objectives)				
Progres	ss monitoring throughout lesson-	End of lesson:				
clarifying	g questions, check-					
in strat	egies, etc.					
questions	and bell work will be used as formative	If applicable- overall unit, chapter, concept, etc.:				
assessmen	nts					

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Consideration for Back-up Plan:

Reflection (What went well? What did the students learn? How do you know? What changes would you make?):

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Appendix

The **bolded** words will be what the students need to fill in.

Guided Notes:

History of the cell

In 1665 English scientists Robert Hooke discovered the cell when looking at cork under the microscope

Reminded him of rooms in a monastery so named them cells

He was looking at dead plant cells

- In 1674 Leeuwenhoek made better lenses and observed cells in greater details
- In 1838 Schleiden first noted that plants are made of cells

1839 Schwann came up with cell theory

- All living organisms are made of cells
- All existing cells are produced by other living cells
- Cell is basic unit of life