

Technology Integration Workshop
2016

Unit Title: Cells

Grade Level: Reading levels 8-12

Subject Area: Life Science - cells

Duration/Length/Number of class periods: Outside class preparation, one face to face class, participate in flip grid

Description:

This lesson is an introduction to cells and their organelles. The lesson is designed to flip the classroom. Students will learn the basics of cells. This lesson will be used to introduce the students to EDpuzzle and Flipgrid.

Established Goals (National, State, Local):

Science Standard 9.4.1.2.4

Life Science - Cells and structures have specific functions that allow an organism to grow, survive and reproduce, SWBAT -Explain the function and importance of cell organelles for prokaryotic and eukaryotic cells as related to the basic cell processes,

What **Enduring Understandings** are desired?

The cell is the basic unit life. There are different types and cells and each cell has specialized structures that enables the cell to get what it needs to live and expel waste.

What **Essential Questions** will be considered?

How would you compare the critical roles of the organelles in a cell to members of a community or organization. How are the components interdependent and what happens when one member malfunctions.?

Do we “own” our bodies? Do our cells, organs,DNA belong to us? Do we ever have an obligation to share these for the sake of science or humanity?

Students will know / be able to:

***identify the difference between a plant cell and an animal cell.**

***identify the major structures (organelles) inside the cell.**

***articulate what job the organelle performs for the cell.**

Description	<i>Units must include at least one of each formative, summative, introductory activity and learning activity. Check the appropriate box; one per row.</i>	Fo rm ati ve	Su m ma tiv e	Intro ctor y Acti vity	Lea rnin g Acti vity	Stu dent Tec hno logy 1 Use d	Teac her Tec hno logy Used	ISTE Stand ards
Link to worksheet								
Day 1 Introduction to cell. View YouTube Introduction to cells				x		x	x	
Visit Cell Alive - Animation					x	x		
With a partner, Memory Match		x				x		2
Edpuzzle - Amoeba Sisters with with quizzes using handout			x		x		x	
Essential Question Discussion using Flip Grid		x				x	x	4

Materials, tools and resources

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Additional credit given to