

7.3.2 e5 The Cell that Couldn't Function Narrative

Time: 50 minutes	Anchor Phenomenon: A single cell can be a living organism.
Big Idea: Cells are systems that complete the functions necessary for life	
CCCs <u>Structure and function</u>	Practices Constructing Explanations -Developing and using models

EPISODE SNAPSHOT: Students write stories in groups that explain what will happen to cells that are missing different organelles.

GATHERING

Students are put in groups of 2-4 and are assigned an organelle. They are given a worksheet which describes a situation, and the requirements of the story they must write that explains what effects the missing organelle has on the cell.

The students will be told that Bob the Cell has been infected by a virus that has affected their assigned organelle. They must include specific information in their story: the function the assigned organelle performs when it is working properly, how the virus stopped the organelle from working, what happens to the cell as the organelle stops functioning, and what finally happens to Bob the cell. They will use evidence previously learned about what function that organelle has and what could possibly happen to a cell if the organelle is no longer functioning.

REASONING

Students will use the information they have previously gathered to create a story explaining how losing the function of an organelle impacts the cell. They must construct a logical storyline, supporting their writing using the information they gathered.

COMMUNICATING

The students can share their stories in several different ways, as time permits. Options include having each group read their story to the class, putting two groups together and having them share their stories with each other, or just having the teacher collect and read the stories and perhaps sharing the most creative ones with the class.

Assessment: Proficiency will be shown by the detail and reasoning used in the story. For each organelle, students will identify the function of the organelle and what missing that function could do to the cell.	Materials, resources, handouts, etc: 7.3.2 e5 The cell that couldn't function worksheet
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