



Cells Lesson 1: *The Solve*

Student Guide Live Video Phenomenon

I. Video Clips of Phenomena

Either on your own, in a small group, or as a class (your teacher will let you know), watch the video clips.

- a. <https://mosamack.com/home/cells/lessons/solve/live>
- b. <https://mosamack.com/home/cells/lessons/solve/live#video2-tab>

Watch each video. As you watch, write down what you think the video shows. You can write as many guesses as you'd like. As the video progresses, you can write new ideas.

Video 1:

Video 2:

How do you think these videos are related?



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II. Let's Figure It Out!

The videos that you studied above all show _____, made of one or many _____. In the box below, describe what you think a cell is.

Cell Definition (my group):
Cell Definition (my class):

Activity: Card Matching

Living things can be made of one or many cells. And in fact, the different types of cells in an organism can actually look very different from each other depending on their job or function. Study the cards provided by your teacher. Can you correctly match each cell card to the proper organism or part of each organism? Write in the organism card letter in the correct row. In the "Reasoning" column, explain what clues led you to match the cell with the organism.

Cell Card	Organism Card	Reasoning
1		
2		
3		
4		
5		
6		
7		
8		



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Reflection

1. Reflect on the answers that your teacher showed you. Did you match all cards correctly? Choose one you matched correctly. What clues led you to make the correct match? Choose one you matched incorrectly. What clues do you now see that you didn't initially see?

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2. Why do you think certain cell types look the way they do? What do you think the relationship is between a cell's structure and its function?

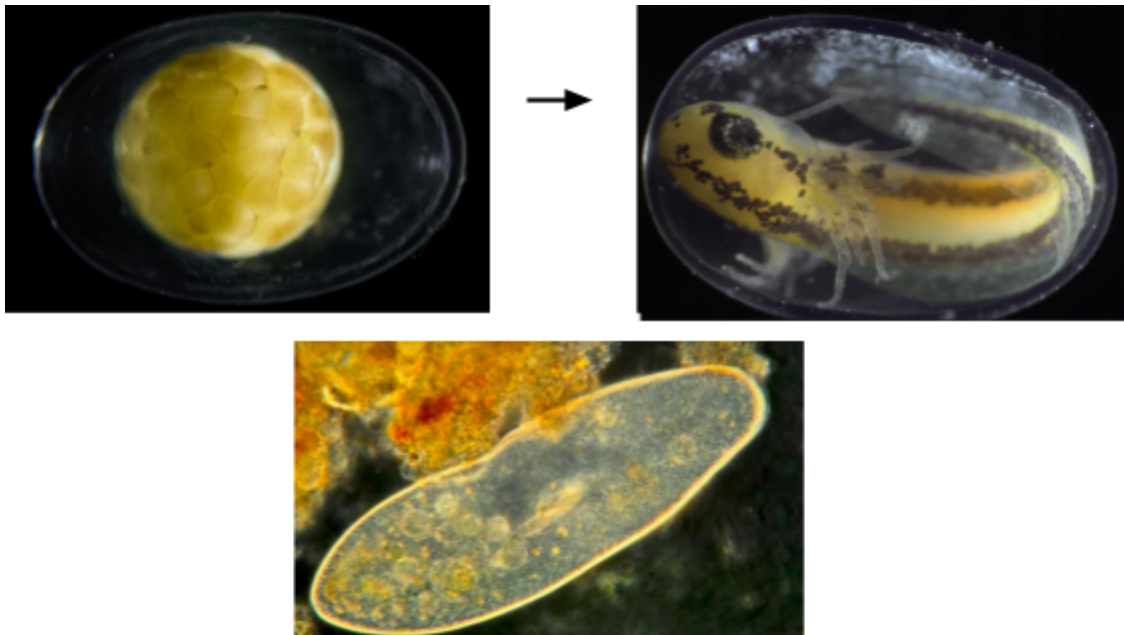
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III. Constructing an Explanation

1. Use these terms to annotate the images below. *Hint: There's more than one right answer!*

- **Cell:** Basic unit of life
- **Unicellular:** Made from one cell
- **Multicellular:** Made from many cells
- **Organism:** An independent, living thing capable of carrying out life processes (examples: plant, animal, or single-celled creature)



2. Explain how the videos we viewed at the beginning of this lesson and the card matching activity help us understand that cells are the foundation of living things. Apply the terms used in Question 1 in your explanation.



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IV. Exit Ticket: Check for Understanding

Complete the exit ticket below by circling the best answer for each question or you can take the quiz online!

Name: _____

Date: _____

- All of the following are made from cells except:
 - Grass
 - Rock
 - Mouse
 - Mushroom
- Which of the following cell statements are accurate?
 - Cells are the basic unit of structure and function of living things
 - All living things are made of cells
 - Organisms can be made from one or many cells
 - All of the above
- A bacterium is a living organism, made from one cell. Therefore, a bacterium is considered to be:
 - Multicellular
 - An organelle
 - Nonliving
 - Unicellular
- True or False: Although cells are the building blocks of living organisms, they can vary in size, shape, color, and function.
 - True
 - False
- Which of the following statements accurately describes the image?
 - This image shows something that is multicellular because I see many cells
 - This image shows something that is unicellular, because it is only one cell

