

Unit

2

Handout

*SDRO Summative***Purpose:**

To assess your understanding of the larger concepts from the SDRO unit.

In this part of the summative assessment you will create a dichotomous key and explain how one organism, supported with evidence, is classified with that key.

What you need to do:

1. Create a dichotomous key (your flow chart) based on the characteristics of life
2. Write a paragraph that explains how one organism is classified with your dichotomous key using evidence from the IBI and SDRO units to support your answer.

The Dichotomous Key

In class we learned how to make dichotomous keys. We made a visual flow chart of a key. You can use any app to make your flow chart as long as the final submitted version is easily read. However, Popplet seems to be the preferred choice.

What resources can I use?

You may use any of the handouts you received.

You may use the textbook (hard copy or the online book).

What resources can't I use?

Do not use any outside resources. I will be grading you on your answer based on what we have learned in our class.

What characteristics of life do I need to use?

Cells, reproduction, and energy. You are also required to use body/cell structures (body or cell parts).

Can I repeat characteristics on the key?

Absolutely! You will have to at some point.

What if I don't use all the characteristics in my key?

You must find a way to use all the required characteristics mentioned above. You might not use all of them in your paragraph, which is fine. But all of them must show up in your dichotomous key flow chart.

What organism can I choose for my paragraph?

You are limited to the organisms from the organism card set: daphnia, elodea, euglena, blackworm, paramecium, spirogyra, fast plant, cabbage white butterfly, and the amoeba.

Go on to the next page.

What is this “evidence” you speak of?

Think of each of your choices as a claim. If you claim that the organism has a certain type of cell, you need to back it up with evidence. For example, you might discuss what you observed (or did not observe) in the cell that allowed you to claim this. You might also define what that type of cell means and connect it to what you say....hint, hint.

How will I be graded?

I will use the rubric below. You can earn up to 10 points for this part.

	5 - Demonstrates Understanding	4	3 - Developing Understanding	2	1 - Beginning Understanding
Dichotomous Key	The student's dichotomous key classifies organisms using the characteristics of reproduction, cells, energy, and structures.	Most but not all of 5.	The student's dichotomous key classifies organisms using some of the characteristics of reproduction, cells, energy, and structures.	Most but not all of 3.	The student's dichotomous key classifies organisms and does not use characteristics of reproduction, cells, energy, and structures.
Written Paragraph	The student describes how the organism is classified using their dichotomous key. The student's walkthrough paragraph of an organism is fully supported with evidence from the unit.	Most but not all of 5.	The student partially describes how the organism is classified using their dichotomous key. The student's walkthrough paragraph of an organism is somewhat supported with evidence from the unit.	Most but not all of 3.	The student does not describe how the organism is classified using their dichotomous key. The student's walkthrough paragraph of an organism is not supported with evidence from the unit.

ERRORS: You will be marked down for any incorrect information you provide. For example, if you say an organism is unicellular and it's multicellular, you will be marked down. (-.25 pts per error).