

Biological Molecules

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Description:

In this single-class activity, students identify and compare biological molecules of a specific type (e.g., carbohydrates, lipids, etc.) based on their structure and function. During this flipped classroom activity, students develop autonomous critical thinking skills, as well as collaborative skills. See a full description [here](#).



Out of Class (Instructor)





Out of Class (Students)



In Class (Instructor)





In Class (Students)


Prepare for Class  

Do assigned readings and watch a video about lipids.

Note: Use the [handout](#) provided by the instructor with the topics to be covered, including key concepts, learning outcomes, and assigned readings. The [handout](#) includes outlines for the Lipids Activity and an activity on Carbohydrates.



Take a Quiz  

Do a quiz through Moodle to test what is learned from the video and readings.

Introduce Activity 



- Review material at the start of the class and answer any questions students might have from the pre-assigned readings
- Introduce the activity and provide details of how to fill in the Lipids table

Note: Class instructions, tables, and answers can be found in the [teacher guide](#) for the Lipids activity and an activity on Carbohydrates.

Complete Lipids Table  


Get into groups of 2-3 and fill in the lipids table.

20 min



Review Lipids Table  

Read through and correct the table of another group.

15 min


Answer Student Questions 

- Regroup the class to answer student questions
- Proceed with clicker questions



Answer Clicker Questions  

Respond to clicker questions.

15 min

Review and Revise Answers 



Take up those questions with the entire class that the majority of the class answers incorrectly.

Correct Answers  







Change any incorrect answers on the table.

Legend

Context Icons:

-  Individual Work
-  Work in Groups

Task Icons:

-  Assess/Review Peers
-  Revise/Improve
-  Read
-  Write
-  Quiz/Test
-  Instructor Orchestration