

# Now You See Me, Now You Don't: Fluorescent Tagging Membranes

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## Description:

In this single-class activity, students will explore the effects of fluorescent tags placed on a membrane which will allow for a better understanding of the fluid mosaic model. Students will also learn about cell structure, cell function, and cellular transport. See a full description [here](#).



Out of Class (Instructor)



Out of Class (Students)



In Class (Instructor)



In Class (Students)

**Prepare for Class**

- Watch two videos; one on cell membrane structure and another on membrane transport
- Read assigned readings and look over key concepts

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**Do a Quiz to Test Knowledge**

Complete a Moodle quiz to test knowledge on membrane structure and function.

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**Introduce Activity**

- Review the material and answer any questions the students may have about the quiz, assigned readings and videos (15 minutes)
- Split the class into groups of 3-4 and introduce the case
- Give the students an assignment on membrane fluorescent tags and fluidity. This activity also has a graphing component

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**Address the Questions**

Answer the questions in the assignment.

... 15 min

**Give Feedback and a New Assignment**

- Go over the answers to the assignment
- Give the students a second assignment on the location of membrane proteins

Note: The assignment can be done using a smart board or a computer to have students place components on the cell membrane.

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**Address Questions from New Assignment**

Answer the questions in the assignment.

... 15 min

**Give Feedback for the Assignment**

Go over the answers to the assignment.

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**Ask Clicker Questions**

Go through the multiple choice clicker questions.

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**Address Clicker Questions**

Answer the series of clicker questions (approx. 3 minutes per question).

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### Legend

#### Context Icons:



Individual Work



Work in Groups

#### Task Icons:



Problem Solve



Read



Quiz/Test



Instructor Orchestration



Instructor Evaluation

Discuss and Re-  
Answer the Questions



Optional: If less than 70% of the students answer the clicker questions correctly, ask them to discuss and re-answer them as a group.

