

Genetics, Membrane Transport & Cystic Fibrosis (CF)

A written response to how a case study on CF will help us *bring together* two units of Biology 12.

Name

Due Date

THIS IS A SUMMITIVE ASSESSMENT

Assessment Question Objective:

- Describe how some KEY IDEAS from the Transport Across the Membrane Unit AND DNA/Protein Synthesis can be utilized to explain the condition of Cystic Fibrosis.
- You must include a diagram of the functional and non-functional membrane protein and within your text you refer to it (see fig 1) and explain its significance.

Key Vocabulary

- you will use in your response.
 - Homeostasis
 - Osmosis
 - Diffusion
 - Tonicity
 - Hyper, hypo and isotonic solution
 - Protein synthesis
 - Exocytosis
 - Mutation
 - Transmembrane/Integral Protein
 - Large, charged, polar
 - Chloride Ions
 - Normal CFTR Protein
 - Mutant CFTR Protein
 - mucous
- Write your response in Essay style
 - Intro
 - Body
 - Diagram
 - Conclusion



CFTR Protein

	NYM	Approaching	Meeting	Exceeding	Score
Intro			<ul style="list-style-type: none"> Strong thesis statement: AKA an answer to the “big” question. Define Cystic Fibrosis. Define mutation 		
Vocab			<ul style="list-style-type: none"> Define each term in context 		
Argument			<ul style="list-style-type: none"> Appropriate contextual use of vocab term Organized with respect to “flow” 		
Diagram			<ul style="list-style-type: none"> Appropriately referenced and well explained in text 		
Conclusion			<ul style="list-style-type: none"> Restate thesis “in other words” Overview/summary 		
Mechanics			<ul style="list-style-type: none"> Minimal grammatical errors 		
Total					

