Cell Membrane Structure *Rubric*

	Model	Written Analysis	Mechanics and Conventions
	The extent to which the model and written analysis incorporate the required elements, effectively complete the task, and show understanding of the purpose and audience	*The extent to which the written analysis fully develops ideas, utilizing specific and relevant facts, descriptions, discussions, explanations, and data*	*The extent to which the written analysis of the model demonstrates knowledge of grammar and conventions, including vocabulary usage, punctuation, and spelling*
Weight (%)	50	35	15
6	**Very Effective** Demonstrates a thorough understanding of the structure and properties of the cell membrane; completes all parts in an accurate manner; may go beyond the limits of the task; uses accurate graphs and calculations	**Very Effective** Includes accurate and detailed descriptions of the structure and function of phospholipids and membrane proteins, the difference between proteins involved in active and passive transport, and the specialization of membrane proteins; shows strong content knowledge and reasoning of all components and ideas	**Very Effective** Contains few or no errors in grammar, vocabulary, spelling, and punctuation
5	**Good** Demonstrates a general understanding of the structure and properties of the cell membrane; completes all parts of the task; uses accurate graphs and calculations	**Good** Includes an accurate description of the structure and function of phospholipids and membrane proteins, the difference between proteins involved in active and passive transport, and the specialization of membrane proteins; demonstrates appropriate content knowledge and reasoning of all components	**Good** Contains a few errors in grammar, vocabulary, spelling, or punctuation that do not interfere with ideas and meaning
4	**Adequate** Demonstrates a basic understanding of the structure and properties of the cell membrane; completes most parts of the task; may be missing a few elements; uses some calculations that may be incorrect but graphs show accurate trend lines	**Adequate** Includes a mostly accurate description of the structure and function of phospholipids and membrane proteins, the difference between proteins involved in active and passive transport, and the specialization of membrane proteins; may contain minor inaccuracies of some components; demonstrates adequate content knowledge	**Adequate** Contains some errors in grammar, vocabulary, spelling, or punctuation that do not significantly interfere with ideas and meaning
3	**Limited** Demonstrates little understanding of the structure and properties of the cell membrane; completes most parts of the task; is missing some elements; uses calculations that are incorrect and graphs that are hard to read	**Limited** Is missing one or two components, but has a description of the structure and function of phospholipids and membrane proteins; demonstrates limited content knowledge	**Limited** Contains several significant errors in grammar, vocabulary, spelling, or punctuation that occasionally interfere with ideas and meaning
2	**Minimal** Demonstrates minimal understanding of the structure and properties of the cell membrane; completes less than half the task; uses calculations that are incorrect and graphs that do not reflect data	**Minimal** Is missing several components and has incomplete descriptions of the structure and function of phospholipids and membrane proteins; demonstrates minimal content knowledge	**Minimal** Contains many significant errors in grammar, vocabulary, spelling, or punctuation that substantially interfere with ideas and meaning
1	**Inadequate** Demonstrates no understanding of the structure and properties of the cell membrane; completes very few parts of the task; uses incorrect calculations and graphs	**Inadequate** Is missing several components; fails to develop and connect ideas; needs significant work on the descriptions of the structure and function of phospholipids and membrane proteins; demonstrates little evidence of content knowledge	**Inadequate** Contains considerable errors in grammar, vocabulary, spelling, or punctuation that make understanding ideas difficult