

Name _____ Period _____

Inside The Cell

Part I. Structure and function are closely related. To get an overview of how the structure of organelles complement their function complete the chart below for some of the organelles you read about in *Inside the Cell*.

Organelle	Structure	Function
Nucleus		
Cell Membrane		
Endoplasmic Reticulum		
Golgi Complex		
Lysosomes		
Mitochondria		
Cytoskeleton		
Ribosomes		

Part II. When an organelle doesn't work problems can arise. Research the following diseases. Describe the symptoms and determine what organelle is malfunctioning.

Danon disease

Mitochondrial disease (*so the name gives it away but research it anyway!! It can be devastating.*)

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Part III. Write a response to the following prompt. Choose one of the organelles you read about in the online textbook or saw in the images on our website to use in your answer. You **cannot** choose lysosomes or mitochondria (the causes of the two diseases studied in Part II).

The Cell Body Corporation has decided to eliminate several organelles due to budget constraints. Write a letter to the Cell Body Corporation to convince them not to eliminate the job of your organelle. You must state the function of the organelle and explain how it works together with the rest of the cell. Provide an image of your organelle (i.e. drawing of the cell, diagrams...). Lastly, create a campaign ad or poster promoting your organelle.