

I'm not robot!

Cell Part	Function	Analogy to City
Cell Membrane	Encloses the cell and acts like a gatekeeper regulating what goes in and out.	Fence
Nucleus		
Cytoskeleton		
Lysosomes		
Centrioles		
Mitochondria		
Endoplasmic Reticulum		
Golgi Apparatus		
Cytoplasm		
Vacuole		
DNA		
Protein		
Ribosome		

Field Name	Data Type	Description
ListID	long	Primary Key for the table
TaskID	long	TaskID of the task associated with the list
PathID	long	PathID of the path associated with the list
ListName	string*50	Name of the list
ListDesc	string*255	Description of the list
ReferenceName	string*50	Name of the spreadsheet cell associated with the list
TutorAware	boolean	Whether the ICA should be notified of any changes to the list
TargetID	long	TargetID of the output
TotalColumns	long	Total number of data columns
Row	long	Spreadsheet row number of the output → speed optimization
Column	long	Spreadsheet column number of the output → speed optimization
SheetName	string*50	Sheet name were the input is located → speed optimization

PoutputID	Long	Primary Key for the table
TaskID	Long	TaskID of the task associated with the parameter output
ModelID	Long	ID of the model associated with the parameter output
OutputName	String*50	Name of the parameter output (informational purposes)
OutputDesc	String*255	Description (informational purposes)
ReferenceName	String*50	Name of the spreadsheet cell associated with the parameter output
SimReferenceName	String*50	Name of the associated parameter in the system dynamics model
TutorAware	Boolean	Whether the ICA should be notified of any changes to the parameter output
SourceItemID	Long	SourceItemID of the parameter output
TargetID	Long	TargetID of the parameter output
Row	Long	Spreadsheet row number of the parameter output (used for speed optimization)
Column	Long	Spreadsheet column number of the parameter output (used for speed optimization)
SheetName	String*50	Sheet name were the parameter output is located (used for speed optimization)

Name: _____ Period: _____ Date: _____

Cell City Analogy 2012



A cell is very much like a city because, like a city, each cell has a purpose and components that are needed by other cells or communities. In this activity you will read the Cell City Analogy and identify the cell parts that are similar to the underlined parts of the city story (see page 274-275).

In a far away city called Cell City, the main export and production product is the steel ball and export balls. The Iron Ball Factory has the instructions for ball making. Balls come in many shapes and the citizens of Cell City can get the Iron Balls and begin making their own balls, although the instructions can't leave the factory. A Pharmacy Center makes it possible to copy the instructions if you want to create another steel ball. Balls are generally produced in small shops around the city. After the balls are constructed, they are placed on special carts which can deliver the balls anywhere in the city. These carts are transported on roads that connect the entire city together. In order for a ball to be exported, the carts take the balls to the postal office where they are packaged and labeled for export. Sometimes balls don't turn out right, and the recycle one sent to the recycling and scrap center where they are broken down for parts or destroyed altogether. The town powers the ball shops and carts from a hydroelectric dam that is the city's power station. A large wooden fence encloses the entire city, and only the postal trucks (and others with proper passports) are allowed outside the city. The city is held together by roads and highways that give the city its shape. The city itself has nice green growing in and around the streets and buildings.

Match the parts of the city (underlined) with the parts of the cell.

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