

Name: \_\_\_\_\_ Block: \_\_\_\_\_ Date: \_\_\_\_\_

Surface Area / Volume - Guided Notes

Just like players in \_\_\_\_\_, the organelles need to be close enough to \_\_\_\_\_ with one another.

A. If the cell is \_\_\_\_\_, the organelles are \_\_\_\_\_ and \_\_\_\_\_  
\_\_\_\_\_. They are unable to carry out their roles.

B. If the cell is \_\_\_\_\_, there is \_\_\_\_\_ for the organelles  
to \_\_\_\_\_. They are unable to carry out their roles.

(Think of Goldie Locks and the Three Bears) The cell whose size is \_\_\_\_\_, can perform these functions:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

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The most important factor in a cell's size is the ratio of \_\_\_\_\_  
\_\_\_\_\_. Or

A. Surface area refers to \_\_\_\_\_ (\_\_\_\_\_)

B. Volume refers to \_\_\_\_\_ (\_\_\_\_\_)

The cell's problem is that \_\_\_\_\_ and \_\_\_\_\_!

**\*\*2 Key points\*\*** 1. \_\_\_\_\_!

2. \_\_\_\_\_!

**Visual examples:**

**High**



**Low**



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**Our big takeaways:**

1. \_\_\_\_\_.
2. \_\_\_\_\_!
3. \_\_\_\_\_.