

Cell Size and Diffusion Lab – Data Sheet and Questions

As you perform the lab, record all the data you collect in the table below. At the end of the lab, you'll be asked to think about how the characteristics of structures like this affect the rate at which they increase the surface area to volume ratio of different cells, and how that may affect the efficiency of the processes.

1. Complete Table 1.

Cell model	Surface area of the rectangular prism (cm ²)	Volume of the rectangular prism (cm ³)	Surface area: volume ratio (SA:V)
1 cm x 1 cm x 1 cm	6 cm ²	1 cm ³	6:1
1 cm x 1 cm x 2 cm	14 cm ²	2 cm ³	7:1
1 cm x 1 cm x 3 cm	22 cm ²	3 cm ³	7.33:1

2. How many cells are represented by these 3 structures? How are they most similar? (Remember, 1 liter = 1,000 cubic centimeters. So 1 cubic centimeter = 1 mL, which means 1000 cubic centimeters = 1 L of volume. While 1 cubic centimeter = 1 mL, 1 cubic meter is 1,000,000 cubic centimeters, and 1 cubic meter is 1,000,000 mL of volume. Therefore, 100,000 cubic centimeters would translate to 100 L of L.)

3. Do the surface area and volume of a cell structure affect which substances can enter?

How surface area and volume of a cell affect its characteristics of the cell's rate. In the table above, it shows that the surface area:volume ratio is changing. This surface area and volume ratio increases as the cell size increases. Therefore, the surface area:volume ratio changes.

4. How are cells in order of their surface area to volume ratio? (Remember, 1 cm³ = 1 mL.)

1 cm³ = 1 mL, 2 cm³ = 2 mL, 3 cm³ = 3 mL

5. What happens to the surface area:volume ratio as the cell size increases?

As the cell increases in size, the surface area to volume ratio decreases.

Cell Size Lab Answers

Marco Casella



Cell Size Lab Answers:

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