

## Cell Size

What determines the size of a cell?

### Why?

Sometimes bigger is better—tall basketball players, more closet space, and savings accounts may come to mind. What about cells? Does having big cells make an organism bigger or better? Would having larger cells be an advantage to an organism? If so, why do cells divide rather than continue growing? Maybe there is an advantage to being small.

### Model 1 – Investigating Cell Size



1. Are the cells shown in Model 1 plant or animal cells? Explain your answer.  
**ANIMAL – NO CELL WALL, CHLOROPLAST, LARGE CENTRAL VACUOLE**

2. Label Cell B in Model 1 with the following structures.

cell membrane

cytoplasm

nucleus

ribosomes

vacuole

mitochondria

3. Compare the smaller cell in Model 1 to the larger cell in Model 1.

a. Which cell has a larger surface area (more cell membrane surface)?

**CELL B (LARGER CELL) HAS A LARGER SURFACE AREA THAN CELL A.**

b. Which cell has more channels in its cell membrane that can transport molecules (nutrients, oxygen, and waste products) in and out of the cell?

**CELL B (LARGER CELL) HAS MORE CELL MEMBRANE CHANNELS THAN CELL A.**

# Model Investigating Cell Size Answers

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## **Model Investigating Cell Size Answers:**

**BSCS Science Technology : Investigating Life Systems, Teacher Edition** ,2005      Water-resources Investigations Report ,1995      A-Level Biology for AQA: Year 1 & 2 Student Book CGP Books,2020-09-29 This comprehensive CGP student book covers both years AQA A Level Biology It contains in depth accessible notes explaining every topic supported by clear diagrams photographs tips and worked examples To test students knowledge and understanding there are practice questions and exam style questions throughout the book with complete answers included There s also detailed guidance on Maths Skills Practical Investigations and indispensable advice for success in the final exams If you prefer separate CGP student books are available for Year 1 9781782943198 and Year 2 9781782943242 of AQA A Level Biology      **Modules** McDougal Littell Incorporated,2005      **Micrographic Dictionary; A Guide to the Examination and Investigation of the Structure and Nature of Microscopic Objects** John William Griffith,1875      **Investigations in Natural Science: pt.1. Biology. Teacher's guide** ,1985      **Systems Biology of Cell Signaling** Zhike Zi,Jianhua Xing,Denis Tsygankov,2022-02-17 Topic Editor Prof Xing is in collaboration with ATCC <https://www.atcc.org> on testing some of their cell lines in research All other Topic Editors declare no competing interests with regards to the Research Topic subject

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