



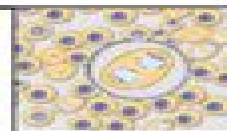
Student Exploration: Cell Division

Activity B:

Duration of phases

Get the Gizmo ready:

- Select the TABLE tab.



Question: What is the relative duration of each phase of the cell cycle?

1. **Collect data:** Set the **Cycle Length** to 10 hours and click **Play**. Click **Pause** when the maximum number of cells has been reached. On the **TABLE** tab, click **Record data**.

Record the number of cells in each phase of the cell cycle in the table below. Then click **Play**, wait for a while, and click **Record data** again. Repeat this process until you have recorded four sets of results, and then find the average number of cells in each phase.

Trial	Interphase	Prophase	Metaphase	Anaphase	Telophase	Cytokinesis
1	77	10	3	3	3	4
2	78	11	3	1	2	5
3	80	10	3	0	4	3
4	80	10	4	2	3	1
Avg.	78.75	10.25	3.25	1.5	3	3.25

2. **Analyze:** Which phase of the cell cycle is longest? **Interphase** Shortest? **Metaphase**

Why: Cells spend lots of time in interphase, so if we see a large number of them in interphase at any given moment, such as this one. Cells spend less time in metaphase, so the chance that we see many cells in that phase is very small.

3. **Calculate:** You can use your data to estimate the duration of each phase of the cell cycle. For example, if 8% of the cells were in prophase and the cell cycle was 10 hours long, then prophase would last 8% of 10 hours, or 0.8 hours (48 minutes).

Use percentages to estimate the duration of each phase of the cell cycle. Show your work.

Interphase: $78.75 \times 10 = 7.9$ hours

Prophase: $0.1025 \times 10 = 1.025$ hours

Metaphase: $0.0325 \times 10 = 3.25$ hours



Answer Key To Student Exploration Cell Division

McDougal Littell Incorporated



Answer Key To Student Exploration Cell Division:

Human Biology Craig H. Heller,1999 Emerging Technologies for the Classroom Chrystalla Mouza,Nancy Lavigne,2012-11-07 This book provides contemporary examples of the ways in which educators can use digital technologies to create effective learning environments that support improved learning and instruction These examples are guided by multiple conceptual and methodological traditions evolving from the learning sciences and instructional technology communities as well as other communities doing important work on learning technologies In particular the book provides examples of technology innovations and the ways in which educators can use them to foster deep understanding collaboration creativity invention and reflection Additional examples demonstrate the ways in which emerging mobile and networked technologies can help extend student learning beyond the confines of the classroom wall and support student directed learning and new media literacies The Science Teacher ,1997 SCC Library has 1964 cur **Cells, Teacher's Guide , The Software Encyclopedia 2000** Bowker Editorial Staff,2000-05 **Modules** McDougal Littell Incorporated,2005 *AQA GCSE Combined Science: Trilogy: AQA GCSE Biology for Combined Science: Trilogy Teacher Handbook* Katie Estruch,2025-09-11 This AQA GCSE Combined Science Trilogy Biology Teacher Handbook ebook edition has been brought right up to date to meet the needs of today s science teachers Subject and non subject specialists can be confident that this guide gives them what they need to pick up and teach GCSE Biology lessons that will have a lasting impact on their students This book is full of clear guidance and explanations including topic overviews common misconceptions key terminology and ideas to help you to relate the content to relevant contexts and students experiences Drawing on insights from current research evidence informed teaching strategies support your professional development Use this along with the Chemistry and Physics AQA GCSE Science teacher handbooks as well as the matching Student Books

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