



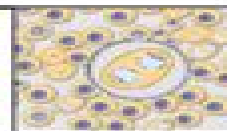
Student Exploration: Cell Division

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



Explore Learning Student Exploration Cell Division Answer Key

S Nieto



Explore Learning Student Exploration Cell Division Answer Key:

The American Biology Teacher, 1938 Includes section Books Abstracts of the ... General Meeting of the American Society for Microbiology American Society for Microbiology. General Meeting, 2008 *Bulletin of the Atomic Scientists*, 1967-03 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **Popular Mechanics**, 2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

New York Magazine, 1997-04-28 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine's consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea *Bulletin of the Atomic Scientists*, 1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2008

Whispering the Strategies of Language: An Emotional Quest through **Explore Learning Student Exploration Cell Division Answer Key**

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