

Microbial Kinetics: Growth & Death Rate

PROBLEM 1: GROWTH CURVES

The following figure shows a typical growth curve for a bacterial culture. The curve is plotted on a semi-logarithmic scale, with the y-axis representing the number of cells (log scale) and the x-axis representing time (linear scale). The curve starts at a low cell count, increases rapidly during the exponential phase, and then levels off during the stationary phase. The curve is labeled with the following phases: lag phase, exponential phase, stationary phase, and death phase.

PROBLEM 2:

- a. What is the lag phase?
- b. What is the exponential phase? What is the stationary phase?
- c. What is the death phase? What is the stationary phase?

PROBLEM 3:

PROBLEM 3: GROWTH RATE

- a. What is the growth rate? What is the growth rate constant? What is the doubling time?
- b. What is the lag phase? What is the lag phase constant? What is the lag phase time?
- c. What is the stationary phase? What is the stationary phase constant? What is the stationary phase time?
- d. What is the death phase? What is the death phase constant? What is the death phase time?
- e. What is the growth rate? What is the growth rate constant? What is the doubling time?
- f. What is the lag phase? What is the lag phase constant? What is the lag phase time?
- g. What is the stationary phase? What is the stationary phase constant? What is the stationary phase time?
- h. What is the death phase? What is the death phase constant? What is the death phase time?

Growth Curve



Figure 1: Growth Curve

	Exponential Phase	Stationary Phase	Death Phase
1. Lag phase			
2. Exponential phase			
3. Stationary phase			
4. Death phase			

PROBLEM 4: GROWTH RATE AND DEATH RATE

- a. What is the growth rate? What is the growth rate constant? What is the doubling time?
- b. What is the death rate? What is the death rate constant? What is the death phase time?

Golden Penny Lab Answer Key

Dennis Arden Hooker

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Transformative Science Teaching Daniel Morales-Doyle, 2024-05-23 A call to action championing equity and social justice in K 12 science curriculum

1500 Science Test Questions/Answers Dennis Arden Hooker, 2025-01-01 1500 Science Test Questions w Keys Answers Statistical Analysis For Science Teachers Upper Elementary to College Dr Hooker researched and developed a book of 1500 Science Test Questions together with the Bloom's Taxonomy Discrimination Index the Key etc The book was funded through the National Science Foundation for teachers of Upper Middle School through College Science Programs 1500 Science Test Questions is an excellent tool for teachers to develop their own tests and for students to study for High School and College proficiency exams

Sylloge of Coins of the British Isles, 1964

Annual Report to Congress United States. Department of Energy, 1986

Gold Digger Omnibus #6 Fred Perry, More adventures of Gina and Cheetah

Gold in Giant Mark Yonash, 2019-07-16 Somewhere in the very far future mankind has gone through two more world wars and come out of those with one superpower wielded by one leader But the earth has suffered the devastating effects of those wars upon the flora fauna and landscape and it is now struggling to survive The population is currently living hand to mouth on government handouts for food and water given in pill forms Unsure of the future a high ranking general in the new world superpower uses two scientists to develop a time bending vehicle and attempts to go back in time to explore the possibility of gaining riches he encounters a lot more than he bargained for discover the origins of gold and its placement around the globe travel to the lost city and interface with the culture of Atlantis realize that human giants once walked the face of the earth and discover how the moon got its face

Wind Energy 1975-1985 Penny Farmer, 2012-12-06

New York Magazine, 1976-11-22 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

Science Experiments, Grades 5 - 8 Williams, 2015-01-01 With this comprehensive classroom supplement students learn to

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