

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Virtual Population Lab Activity

Go to the following website to complete the virtual lab activity.  
[http://glencoe.mcgraw-hill.com/sites/dl/files/0078159864/983928/91\\_04.html](http://glencoe.mcgraw-hill.com/sites/dl/files/0078159864/983928/91_04.html)

1. What is the purpose of this virtual lab?

2. Summarize the 2 objectives.

a. \_\_\_\_\_

b. \_\_\_\_\_

Click **INFORMATION** to read about the two types of microorganisms.

3. Where do Paramecia live? \_\_\_\_\_

4. What is exponential growth? \_\_\_\_\_

5. What often prevents populations from growing exponentially? \_\_\_\_\_

6. What is a carrying capacity? \_\_\_\_\_

7. Besides the answers to #5, what else can limit populations from growing? \_\_\_\_\_

8. What is the principle of competitive exclusion? \_\_\_\_\_

9. Why will some organisms move into unoccupied areas? \_\_\_\_\_

Close the information box and read the Procedures.

10. What will the Paramecia feed on while in the test tubes? \_\_\_\_\_

11. Fill test tube 1 with fluid of *Paramecium caudatum*.

12. Fill test tube 2 with fluid of *Paramecium aurelia*.

13. Fill test tube 3 with fluid of *Paramecium caudatum* and fluid of *Paramecium aurelia*.

14. Click the microscope to analyze your three samples.

15. Click **CLEAN MICROSCOPE SLIDES**...and then click **TAKE SAMPLE**.

16. Drag sample 1 to the microscope. Count the number of cells and fill in the data table. Do the same for sample 2 and sample 3.

17. When finished, click **CLEAR SLIDES** and then click the calendar to change the day. Repeat steps 15-16 until you have counted a total of 16 days.

|        | P. caudatum only<br>(test tube 1) | P. aurelia only<br>(test tube 2) | P. caudatum when<br>mixed together (tube 3) | P. aurelia when mixed<br>together (tube 3) |
|--------|-----------------------------------|----------------------------------|---------------------------------------------|--------------------------------------------|
| Day 0  |                                   |                                  |                                             |                                            |
| Day 2  |                                   |                                  |                                             |                                            |
| Day 4  |                                   |                                  |                                             |                                            |
| Day 6  |                                   |                                  |                                             |                                            |
| Day 8  |                                   |                                  |                                             |                                            |
| Day 10 |                                   |                                  |                                             |                                            |
| Day 12 |                                   |                                  |                                             |                                            |
| Day 14 |                                   |                                  |                                             |                                            |
| Day 16 |                                   |                                  |                                             |                                            |

# Virtual Population Lab Activity Answers

**Jicheng Xie**



## Virtual Population Lab Activity Answers:

*Artificial Intelligence in Education* Elisabeth André, Ryan Baker, Xiangen Hu, Ma. Mercedes T. Rodrigo, Benedict du Boulay, 2017-06-22 This book constitutes the refereed proceedings of the 18th International Conference on Artificial Intelligence in Education AIED 2017 held in Wuhan China in June July 2017 The 36 revised full papers presented together with 4 keynotes 37 poster presentations 4 doctoral consortium papers 5 industry papers 4 workshop abstracts and 2 tutorial abstracts were carefully reviewed and selected from 159 submissions The conference provides opportunities for the cross fertilization of approaches techniques and ideas from the many fields that comprise AIED including computer science cognitive and learning sciences education game design psychology sociology linguistics as well as many domain specific areas

**K-12 STEM Education: Breakthroughs in Research and Practice** Management Association, Information Resources, 2017-10-31 Education is vital to the progression and sustainability of society By developing effective learning programs this creates numerous impacts and benefits for future generations to come K 12 STEM Education Breakthroughs in Research and Practice is a pivotal source of academic material on the latest trends techniques technological tools and scholarly perspectives on STEM education in K 12 learning environments Including a range of pertinent topics such as instructional design online learning and educational technologies this book is an ideal reference source for teachers teacher educators professionals students researchers and practitioners interested in the latest developments in K 12 STEM education

Human Aspects of IT for the Aged Population. Supporting Everyday Life Activities Qin Gao, Jia Zhou, 2021-07-03 This two volume set constitutes the refereed proceedings of the 7th International Conference on Human Aspects of IT for the Aged Population ITAP 2021 held as part of the 23rd International Conference HCI International 2021 held as a virtual event in July 2021 The total of 1276 papers and 241 posters included in the 39 HCII 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions ITAP 2021 includes a total of 67 papers they focus on topics related to designing for and with older users technology acceptance and user experience of older users use of social media and games by the aging population as well as applications supporting health wellbeing communication social participation and everyday activities

Revolutionizing K-12 Blended Learning through the i<sup>2</sup>Flex Classroom Model Avgerinou, Maria D., Gialamas, Stefanos P., 2016-06-20 Blended learning has gained significant attention recently by educational leaders practitioners and researchers i Flex a variation of blended learning is based on the premise that certain non interactive teaching activities such as lecturing can take place by students without teachers direct involvement Classroom time can then be used for educational activities that fully exploit teacher student and student student interactions allowing for meaningful personalized feedback and scaffolding on demand Revolutionizing K 12 Blended Learning through the i Flex Classroom Model presents a well rounded discussion on the i Flex model highlighting methods for K 12 course design delivery and evaluation in addition to teacher performance assessment in a blended i Flex environment Emphasizing new methods for improving the classroom and

learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators and educational technology developers

**Handbook of Research on Educational Communications and Technology** J. Michael Spector,M. David Merrill,Jan Elen,M. J. Bishop,2013-07-03 The 4th edition of the Handbook of Research on Educational Communications and Technology expands upon the previous 3 versions providing a comprehensive update on research pertaining to new and emerging educational technologies Chapters that are no longer pertinent have been eliminated in this edition with most chapters being completely rewritten expanded and updated Additionally new chapters pertaining to research methodologies in educational technology have been added due to expressed reader interest Each chapter now contains an extensive literature review documenting and explaining the most recent outstanding research including major findings and methodologies employed The Handbook authors continue to be international leaders in their respective fields the list is cross disciplinary by design and great effort was taken to invite authors outside of the traditional instructional design and technology community

**Archives of Pathology & Laboratory Medicine** ,2008 Human-Centered Solutions and Synergies across Robotic and Digital Systems for Rehabilitation Giacinto Barresi,Ana Lúcia Faria,Marta Matamala-Gomez,Edward Grant,Philippe Archambault,Giampaolo Brichetto ,Thomas Platz,2024-11-18 Rehabilitation the progressive restoration of lost human functions must be effective personalized clinically compliant and engaging while obtaining maximum results with minimal allocation of resources it must be tailored to each patient s needs it must comply with the medical protocol and it must engage the patient to perform the expected exercises activities In order to achieve such objectives interaction technologies offer a wider range of solutions every year more versatile more impactful In this context robots and digital systems constitute groundbreaking opportunities for innovation in rehabilitation especially through their adoption of artificial intelligence technologies For instance they can work as theranostic machines by means of their capability of collecting and analysing valuable data through this they can evaluate the rehabilitation outcome improve diagnostic processes and offer new insights on clinical conditions and methodologies while they guide the person in training and re training procedures **Proceedings**

Lawrence P. Grayson,Joseph M. Biedenbach,1986 *Carolina Science and Math* Carolina Biological Supply Company,2003

Proceedings - World Conference on Continuing Engineering Education ,1986 *Youth's Companion* ,1925 **Creating Learning-centered Courses for the World Wide Web** William B. Sanders,2001 This book shows faculty and students how to integrate good practices in learning design and web page technology Using the web an educator can provide an active and interesting environment for his or her students to incorporate as part of a traditional classroom as a supplement to the classroom or in a distance learning course The book begins with good practices in teaching and learning Then it looks for design elements that can be applied to the web and pulls together the practice design and web technology It provides examples of active learning cohort learning problem solving and communication of complex information on the web For those

interested in creating effective web based learning in class or through distance learning      **Government Information on the Internet** ,1998      **The Rod and Gun and American Sportsman** ,1873      **NewMedia** ,1999      Who's who in European Research and Development ,1997      Abstracts of Papers Geological Association of Canada. Meeting,2004

**Current Index to Statistics, Applications, Methods and Theory** ,1994 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields      *Nature Conservancy* ,2003      **The Nature Conservancy Magazine** ,2004

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