

Name \_\_\_\_\_

## AP Biology Lab- Osmosis

### OBJECTIVES

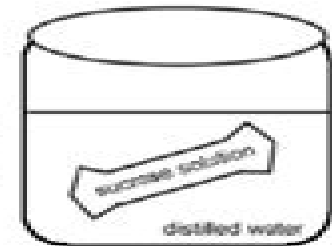
- Investigate the processes of osmosis and diffusion in a model of a membrane system
- Investigate the effect of solute concentration on water potential as it relates to living plant tissues

### EXERCISE 1

1. Obtain 6 strips of dialysis tubing and tie a knot in one end of each.
2. Pour approximately 15-20 ml of each of the following solutions into separate bags.

Distilled Water	0.4 M sucrose	0.8 M sucrose
0.2 M sucrose	0.6 M sucrose	1.0 M sucrose
3. Remove most of the air from the bag (but leave a little bit of space) and tie the baggie.
4. Rinse the baggie carefully in distilled water to remove any sucrose that may have spilled and carefully blot.
5. Record the mass of each baggie and record.
6. Fill six 250 ml beakers two-thirds full with distilled water and place a bag in each of them. Make sure that you record which baggie is which.
7. Let the bag sit for 20-30 minutes. (While this is running, you may want to begin exercise 2.)

**Prediction:** Predict what you think will happen during the experiment.  
(Think about which bags will lose water and which will gain water.)



8. After 20-30 minutes, remove the baggies from the water, and carefully blot dry.
9. Measure the mass of each baggie and record.
10. To calculate: percent change in mass = (final mass-initial mass)/ initial mass. Multiply answer by 100.
11. Gather the data from the other groups in the class and find the class average for each baggie and graph results as a straight line (**use line of best fit**). You will need a line for your data and a separate line for the class average.

Contents in Bag	Initial Mass	Final Mass	Mass difference	% Change in Mass	Class Average
Distilled Water					
0.2 M					
0.4 M					
0.6 M					
0.8 M					
1.0 M					

# Ap Bio Lab 2 Answers

**Neil A. Campbell, Jane B. Reece**



## Ap Bio Lab 2 Answers:

**AP Biology For Dummies** Peter J. Mikulecky, Michelle Rose Gilman, Brian Peterson, 2008-06-02 Relax The fact that you're even considering taking the AP Biology exam means you're smart, hard working and ambitious. All you need is to get up to speed on the exam's topics and themes and take a couple of practice tests to get comfortable with its question formats and time limits. That's where *AP Biology For Dummies* comes in. This user friendly and completely reliable guide helps you get the most out of any AP biology class and reviews all of the topics emphasized on the test. It also provides two full length practice exams complete with detailed answer explanations and scoring guides. This powerful prep guide helps you practice and perfect all of the skills you need to get your best possible score. And as a special bonus you'll also get a handy primer to help you prepare for the test taking experience. Discover how to Figure out what the questions are actually asking. Get a firm grip on all exam topics from molecules and cells to ecology and genetics. Boost your knowledge of organisms and populations. Become equally comfortable with large concepts and nitty gritty details. Maximize your score on multiple choice questions. Craft clever responses to free essay questions. Identify your strengths and weaknesses. Use practice tests to adjust your exam taking strategy. Supplemented with handy lists of test taking tips, must know terminology and more. *AP Biology For Dummies* helps you make exam day a very good day indeed.

**Cracking the AP Biology Exam** Kim Magloire, Princeton Review (Firm), 2004 This updated series by Princeton Review helps students pass the challenging Advance Placement Test with targeted study for each exam of the series.

**E-Learning as a Socio-Cultural System: A Multidimensional Analysis** Zuzevičiūtė, Vaiva, Butrimė, Edita, Vitkutė-Adžgauskienė, Daiva, Vladimirovich Fomin, Vladislav, Kikis-Papadakis, Kathy, 2014-06-30 Information and communication technologies play a crucial role in a number of modern industries. Among these, education has perhaps seen the greatest increases in efficiency and availability through Internet based technologies. *E Learning as a Socio Cultural System: A Multidimensional Analysis* provides readers with a critical examination of the theories, models and best practices in online education from a social perspective, evaluating blended distance and mobile learning systems with a focus on the interactions of their practitioners. Within the pages of this volume, teachers, students, administrators, policy makers and IT professionals will all find valuable advice and enriching personal experiences in the field of online education.

**AP Biology Lab 2**, 2003 *Biology* Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's *BIOLOGY* remains unsurpassed as the most successful majors biology textbook in the world. This text has invited more than 4 million students into the study of this dynamic and essential discipline. The authors have restructured each chapter around a conceptual framework of five or six big ideas. An Overview draws students in and sets the stage for the rest of the chapter. Each numbered Concept Head announces the beginning of a new concept, and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept. New Inquiry Figures focus students on the experimental process, and new Research Method Figures illustrate important techniques in biology. Each chapter ends with a

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assise is an opera in three acts and eight scenes by french composer olivier messiaen who was also its librettist written from  
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