

#### Lab 1 – Introduction to Science

#### Exercise 1: The Scientific Method

Dissolved oxygen is oxygen that is trapped in a fluid, such as water. Since many living organism requires oxygen to survive, it is a necessary component of water systems such as streams, lakes and rivers in order to support equatic life. The dissolved oxygen is measured in units of parts per million (ppm). Examine the data in Table 4 showing the amount of dissolved oxygen present and the number of fish observed in the body of water the sample was taken from; finally, answer the questions below.

Table 4: Water Quality vs. Fish Population										
Dissolved Oxygen (ppm)	a	2	4	6	8	10	12	14	16	18
Number of Fish Observed	o	1	3	10	12	13	15	10	12	13

#### QUESTIONS

Make an observation - Based on the data in Table 4, discuss what patterns you observe
in regards to dissolved oxygen content and fish populations in the body of water?

Answer = I see that the more dissolved oxygen in the water, the less population of fish there will be

Do background research – Utilizing at least one scholarly source, describe how the dissolved oxygen content in a body of water can effect fish populations.

Answer = "Oxygen depletions are the most common cause of fish kills in ponds." (Aqua plant, 2014) Based on what I read and the data shown in this particular chart, it shows that the higher the dissolved oxygen, the lower the number of fish. The dissolved oxygen levels can cause the fish to suffocate and makes them susceptible to diseases.

# **Escience Intro To Biology Labs Answer Key**

**Anthony S. Fauci** 

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China's e-Science Blue Book 2020 Chinese Academy of Sciences, Cyberspace Administration of China, Ministry of Education, Ministry of Science and Technology, China Asso. for Science and Technology, Chinese Academy of Social Sciences, National Natural Science Foundation, Chinese Academy of Agricultural Sciences, 2021-01-08 China's e Science Blue Book 2020 has been jointly compiled by the Chinese Academy of Sciences Cyberspace Administration of China Ministry of Education of the PRC Ministry of Science and Technology of the PRC China Association for Science and Technology Chinese Academy of Social Sciences National Natural Science Foundation of China and the Chinese Academy of Agricultural Sciences It was focusing on the new situation new progress and new achievements of China's e Scientific in the past two years During the 13th Five Year Plan period Chinese scholars make full use of advanced information technology to carry out scientific research work and have achieved a series of major scientific and technological achievements This book has collected 28 research reports about China's e Science application in the past two years to introduce the application in the frontier research of science and technology the progress of e Science in major projects and the achievements of informatization in interdisciplinary As such it provides a valuable reference resource for researchers and students in this area and promotes Current Index to Journals in Education ,2001 **Grid Computing for Bioinformatics** further e Science research and Computational Biology El-Ghazali Talbi, Albert Y. Zomaya, 2007-12-04 The only single up to date source for Grid issues in bioinformatics and biology Bioinformatics is fast emerging as an important discipline for academic research and industrial applications creating a need for the use of Grid computing techniques for large scale distributed applications This book successfully presents Grid algorithms and their real world applications provides details on modern and ongoing research and explores software frameworks that integrate bioinformatics and computational biology Additional coverage includes Bio ontology and data mining Data visualization DNA assembly clustering and mapping Molecular evolution and phylogeny Gene expression and micro arrays Molecular modeling and simulation Sequence search and alignment Protein structure prediction Grid infrastructure middleware and tools for bio data Grid Computing for Bioinformatics and Computational Biology is an indispensable resource for professionals in several research and development communities including bioinformatics computational biology Grid computing data mining and more It also serves as an ideal textbook for undergraduate and graduate level courses in bioinformatics and Grid computing Current Index to Journals in Education, Semin-Annual Cumulation, January-June, 1977 Educational Resources Information Center Staff, 1977-09 **Cumulated Index Medicus** .1964 Genomic medicine Great Britain: Parliament: House of Lords: Science and Technology Committee, 2009-07-07 Volume 1 Report also available ISBN 9780108444517 Genomic medicine has developed from the sequencing of the human From Genes to Personalized Healthcare Nicolas Jacq, 2007 The main focus of this publication is on genome technologies solutions and requirements that interest the grid and the life science communities to foster the integration of

grids into health The proceedings are especially interesting for grid middleware and grid application developers biomedical and health informatics users and security and policy makers with a common focus on the application in the health domain Topics in this publication are State of the art of the grid research and use at molecule cell organ individual and population levels and security and imaging In security data protection and pseudonymization are being discussed In imaging there s Globus MEDICUS which federates DICOM devices through a grid architecture and KnowARC on facilitating grid networks for the biomedical research community Finally there s a report on the successful use of multimodal workflows in diabetic **American Journal of Physics** ,1979 Whitaker's Cumulative Book List ,1977 retinopathy research Index Medicus ,2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings Science John Michels (Journalist), 2005 A weekly record of scientific progress Index to Media and Materials for the Mentally Retarded, Specific Learning Disabled, Emotionally Disturbed National Information Center for Special Education Materials, 1978 **Index Veterinarius** .2003 **Resources in Education** ,1984 El-Hi Textbooks in Print ,1972 British Books in Print ,1980 **Proceedings** .2003 B.A.S.I.C. ,1964 Government Reports Announcements & Index ,1993

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