

Karyotyping Activity

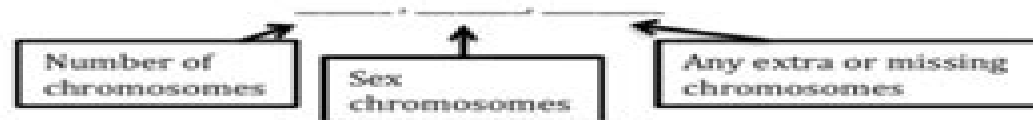
Purpose: This activity is a simulation of human karyotyping using digit images of chromosomes from actual human genetic studies.

Procedure:

1. Log on to the laptops
2. Go to www.biology.arizona.edu/human_bio/activities/karyotyping.html
3. Read through the introduction
4. Read through the Your assignment section
5. Complete the karyotype for each patient and answer the questions for each patient.
6. Answer questions A1, A2, B1, B2, C1 and C2
7. For the internet search you will search the genetic websites, but instead of summarizing the websites please write 2-3 sentences describing the genetic abnormality of each patient.

Questions:

A1. What notation would you use to characterize Patient A's karyotype?



A2. What diagnosis would you give patient A?

B1. What notation would you use to characterize Patient B's karyotype?

B2. What diagnosis would you give patient B?

Human Karyotyping Activity

SA Adler



Human Karyotyping Activity:

Science Strategies to Increase Student Learning and Motivation in Biology and Life Science Grades 7

Through 12 David Butler, 2022-02-17 On the first day of school have you ever thought of your classrooms as newly opened boxes of crayons I do Like pencil sticks of colored wax the students each have different names individual characteristics and various levels of brightness I set a goal each year to promote not only creativity but to draw out of my students reasons about why science is so important As science educators we not only need to illustrate the importance of knowing facts and terminology but also be able to frame those concepts in such a way that students are motivated to want to study and understand biology When I began teaching I never thought that I would have the multitude of experiences I have now I have taught in schools ranging from city to rural public to private and large to small not to mention classes ranging from general science to advanced biology Through these diverse experiences I have developed a number of strategies that have enhanced student achievement and science appreciation In this book I will share with you these experiences and techniques showing you how to enhance teaching skills increase student drive create mental connections better manage your class time use proper technology practice forms of differentiation and incorporate the NGSS In addition this text allows me to share my most treasured philosophies experiences and teaching strategies and how they can be applied to biology life science classrooms *Biology*, 1999 **Teaching Genetics** Michael Matthew Sampson, 2002 **Literature Search** National Library of Medicine (U.S.), 1984 *Hemostasis and Thrombosis*, 1976 Cumulated from monthly issues **Endocrinology Index**, 1971-07 **Fibrinolysis, Thrombolysis, and Blood Clotting: a Bibliography**, 1966 **Cerebrovascular Bibliography**, 1966-07 **Population Sciences**, 1977 *Kidney Disease and Nephrology Index*, 1975-07

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Human Karyotyping Activity Introduction

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