

NOTE: Today is a computer lab day. Make sure you have signed up for the lab in advance.

TITLE OF LESSON

Biology Unit 1 Lesson 43 – Final Project #1: DNA Murder Mystery, Creating a Group Photoshop Page  
*How does what is on the inside help us identify something found on the outside?*

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TIME ESTIMATE FOR THIS LESSON

One class period

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ALIGNMENT WITH STANDARDS

California – Biol CB 1; G5c-d; IE 1a-c & 1

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MATERIALS

**Explanation of Tools** – Student Page  
**DNA Murder Mystery Requirements sheet** – Student Page  
floppy disks

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LESSON OBJECTIVES

- To provide evidence for solving this murder
  - To create scientific data that can be used to solve the murder
  - To understand how scientific evidence is used in a court of law
  - To demonstrate mastery of basic Photoshop skills
  - To create a Photoshop page that houses the murder scenario
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EXPLANATION OF LESSON

Today, students will be working in Photoshop to create the page that will house their murder mystery scenario. They should have completed the mock page design last night. Each student should have assigned himself/herself a role in order to complete the page by the end of the period. You will need to make sure that you have photocopies of **Explanation of Tools** just in case some students lost their copies. All students must bring a disk with them to class for today's lesson. Just in case, you may want to bring extra floppy disks for students who forget or cannot afford one.

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FOCUS AND MOTIVATE STUDENTS – WARM-UP ACTIVITY

- 1) Homework Check – Initial all completed mock Photoshop page layouts from each group. This is Step 4 of their **DNA Murder Mystery Requirements** sheet. Make sure they have filled in all of the appropriate boxes of Step 4 AND that they have a separate sheet of paper that shows exactly what their page will look like, exactly where all of the content will be placed on the page.
  - 2) Computer Protocol – Remind students of computer lab etiquette before they start. Because they have so much to accomplish in so little time, tell them you will not tolerate any messing around today. Remind them that you will not be responsible for any lost or deleted work due to their failure to save their work. So save everything!
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ACTIVITIES – INDIVIDUAL AND GROUP

1. Review – Have all students take out their **DNA Murder Mystery Requirements** sheet, their mock Photoshop page layout, and all of their Photoshop handouts to remind them of how to use the tools, and the floppy disk they should have brought with them to class. If there are any students who forgot to bring disks, tell them they can get one from you when you have finished giving directions.
2. Instructions – Tell students that each person in their group will be working on a different portion of the page today. Since it is impossible for 4 people to work on one computer at a time, they will each work on their assigned portion

of the page on their own computer using the mock layout they created yesterday. Hence the reason that each student needed a copy of their own. The Page Editor's computer will be used as the central computer. Her computer will be where all work will be placed. When a group member finishes their portion of the page, they should save it to their floppy disk and give it to the Page Editor to place on the final page. If they are not working on their page responsibilities, then they must work on tonight's homework.

3. Final Project STEP 5 – Have them turn on their computers, open Photoshop and get started. If any student finishes with their portion of the project early, they should get started on Step 6 of the **DNA Murder Mystery Requirements** sheet. There should be no student sitting around with nothing to do today! Get right to work, as your completed Photoshop page is due today.
  4. Save Individual Copies – Five minutes prior to the end of class, have all students save their completed DNA Murder Mystery page to their own floppy disk. This means that each student should have a copy of the mystery. No one is exempt. Tell them they must bring this to class with them tomorrow.
  5. Teacher Initials – Tell them to get your initials to signify they finished creating the group Photoshop page on time.
  6. Homework Review – Remind students of their homework for tonight. Tell them they should go directly to the computer lab tomorrow.
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#### HOMEWORK

- 1) Bring the floppy disk with your DNA Murder Mystery to class tomorrow.
  - 2) Create your graphic organizer, STEP 6 of your **DNA Murder Mystery Requirements** sheet.
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#### GROUP ROLES

Text Editor—This person will be responsible for typing up accurately in Microsoft Word ALL of the text to be used on the Photoshop page. This means absolutely NO mistakes.

Text Processor—This person will be responsible for placing ALL of the text on the Photoshop page. Making sure the correct font and size of the font has been used. Creating the correct color for the text and using any images or tools that will help the text to stand out and be visually pleasing to the eye.

Image Processor—This person will be responsible for placing all of the images on the Photoshop page. Making sure the size of the image is correct. Creating the correct color for the image and using any tools that will help the image to stand out and be visually pleasing to the eye.

Page Editor—This person will be responsible for the overall look of the page and the final product, making sure that everything has been placed according to the mock layout, creating and placing the title of the page in Photoshop, creating the background and foreground colors for the page, and making sure that all group member's names have been placed on the page as the authors.

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#### DOCUMENTATION FOR PORTFOLIO

- Lab Report #1
- Method – Photoshop Image
- Lab Report #2
- Evaluation Essay #1
- Method 2 – Photoshop Image