

**Scavenging For Science: Final Exam**  
**DUE FRIDAY, MAY 17, at the end of class.**

**Objective:** Your goal in this activity is to deepen your understanding of the natural world. Do this by locating and describing natural world interrelationships among a collection of photographs. You will submit a Google slide show according to the specifications below.

**Rules:**

1. Set up a Google slide show. You may use the template provided. Put the slide show in your Biology folder immediately.
2. Find items depicting as many characteristics on the attached list as you can.
3. For each item, create a slide that includes a photo of the item, with your face clearly in the photo Think: *selfie*. Place the photo in a Google slide with the following information:
  - A. The ID number from the list and the identity of the item
  - B. Any labeling, verification, measurements, calculations, formulas, equations, explanations, etc.
  - C. Explain why your item answers the question. Include chemical formulas, where appropriate.
  - D. Include the reference or source in a format that can be easily traced, such as a link. You may cite the person who told you information as a credit.
4. You may use the slide template provided. See link on the syllabus. Slides must be in numerical order by item number.
5. You may sketch or handwrite part of your evidence and insert a photo in your slide so long as the photo is clear enough to easily see or read anything in the sketch. Photographs that are difficult to read will not be scored.
6. You may be creative with items you choose, so long as your explanation clearly justifies the choice of the item and shows that you have a high level of understanding.
7. You may search for the items alone or with a partner, but the description and presentation, including a physical item, photograph, and description must clearly be your own work.
8. The classroom and laboratory may NOT be used as a source for items except as noted. You may, however, use the lab equipment for measurement and identification purposes during the group time allowed in class.
9. The items needed to meet the criteria listed are all simple, nontoxic substances that are readily available around your home, neighborhood, or school. It is not necessary to spend money to obtain any item.
10. A single item may be used to answer more than one question, as long as the item is clearly labeled for each question. Making full use of this rule is a key to the simplicity of this learning adventure.
11. Items which are illegal or improper to possess or bring to school are unnecessary to complete this project and will result in a grade of zero on the project. This includes but is not limited to ethanol, drugs (including over-the-counter medication), tobacco, flammable items, anything that might be construed as a weapon, compressed gases, and inappropriate content. Use good judgment; ask if you're not sure.
12. You may use references from any source including knowledgeable people, but full citation must be given for each item selected for which you needed outside knowledge.
13. You will be asked to validate selected items by answering questions in class on exam day. 1 point will be deducted from your score for each unacceptable response.
14. Any attempt to falsify information or materials, or to plagiarize photos or information will result in a grade of zero for the item.
15. All safety equipment must be worn when appropriate. Samples will be handled using good lab safety techniques.
16. No animals are to be harmed in the making of this project. Instead, choose an appropriate representation (picture or drawing), or choose another source.

17. Your grade is dependent upon the number of items on the list that are turned in, correctly labeled and verified, the date that the items are turned in, and your individual response to questions answered in class.

**SCORING:**

18. Each item is scored on a 3 point scale as follows:
- 1 point for a photo of a correct substance or item, labeled with item number and explanation
  - 2 points for complete, clear, convincing, and correct explanation and documentation of source as needed.
19. Submit a clean copy of the description list on May 17. Circle numbers of each description to be scored.

**PHOTOGRAPH FORMAT:**

1. To show that each photograph is original, you must appear in the photograph.
2. If the directions specify a sketch, do the sketch yourself. Have someone take a photo of you with the sketch clearly visible, and submit.

Full credit of 150 points will be awarded for the finding, labeling, and verifying a minimum of 50 items from the list. Partial credit is awarded. Additional items correctly labeled and verified and partially complete searches will earn credit at the rate of 3 possible points each. Bonus points in excess of 100% will be added to your semester average rather than your exam score due to Progressbook limitations.

The Efficiency Award will be given to the student who has the highest average number of completely correct characteristic descriptions per total number of items.

**\*Submission to be scored is due on Friday, May 17 by 3:00 PM according to the clock in Room D25 .**

\*Oral defense and final grading take place in class on Monday and Tuesday, June 11-12 during regular class time. If you are not in class on that date, you must arrange for and make up the defense for your grade to be posted.