

Biology 20 Project

S. Pipke-Painchaud TSD 2004

This is an ongoing project that will be completed throughout the semester. It is essentially a portfolio of what Biology means to you. There will be a number of assignments which will be kept in the portfolio. Here is a list of aspects that must be completed in order to fulfill the requirements of the Biology Portfolio.

Assignment Description & Tentative Timeline:

1. Concept Map of Biology (completed at the start of the year – will be done in class)
→ on 8.5" X 11" paper (will be evaluated)
2. Concept Map of Biology (Completed at the end of Dec/May.)
→ on 8.5" X 11" paper (will be evaluated)
3. A Collage of What Biology Means to You (Completed in Sept/Feb)
→ on 11" x 17" paper (will be evaluated)
 - your job is to find pictures that explain what biology represents (i.e. what it means)
 - try to include the different aspects of Science, Technology, Society and the Environment
 - all pictures must be appropriate for school viewing otherwise you will receive ZERO
4. A Record of your observations from our bio walk - to be evaluated
 - during the walk keep a running list of what you see that is biology (water, grass, trees, etc.)
 - at a later time, you need to organize and group the observations that you made
 - then draw lines between things that are connected
 - similar format to a concept map or web
5. A What is Biology Assignment (paragraph on what bio is and what it means to you/ a second paragraph on how biology relates to Science, Technology, Society and the Environment) – completed in Sept/Feb. to be evaluated
→ use the resources around the room to help create the definition
-- must be written neatly or typed
 - a) a **definition of Biology** (may be similar to the one we came up with in class, but it must be in your own words)
 - b) a paragraph on **What Biology Means to You** . . .
 - c) a paragraph on **Why Biology is Important to Us** . . .
 - d) a brief explanation of the **relationship between science, technology, society and the environment**.
6. A definition of Biology (completed at the start of the year)
 - create a page that has your definition of biology
 - Put the date on the page
7. A definition of Biology (completed at the end of the year)

- create a page that has your definition of biology (done at the end of the year)
 - put the date on the page
8. A definition of Science; Technology; Society; the Environment
- create a page that defines these terms (done by the end of the year)
 - give one example of each term
9. **Major Project Aspect:** (at least 8-10 photographs that represent biology, quotations, verse, headlines or events)—see description below
- to be completed over the course of the semester
 - due in December when the entire portfolio is due
- a) take at least 8-10 photographs or digital pictures that represent biology in the world around us. (*Pictures must be appropriate for school or the assignment will receive a ZERO*)—for some pictures you may want to look at the ones that you or your family have already taken. You may want to look at pictures of the places that you have traveled, etc.
- *these are photographs not pictures from magazines. Photos will be returned if requested.*
- b) next to each picture you must include
- 1) a short explanation of how this represents biology (you can always tie it back into your definition of biology) – relate to what we have learned in this course i.e. the lake in the picture is an example of the aquatic ecosystem, the water cycle, etc.
 - 2) a note about where and when the picture was taken
- c) Collect 10 other pictures (can be cut out from magazines or off of the internet or from calendars) of things that represent biology in the world
- d) Next to each include a short definition of how this represents biology
- e) Throughout this section of the portfolio include 5 quotations or segments of verse that relate to biology (remember that you will likely find some of these when you are doing your journal articles.)—they may comment on science or life or they may be about an event. (**include author name**)
- f) Include 5 headlines of biology related events that have happened in the last century. Be sure to include **where** you got them from (so name of newspaper or internet site address) and **when** they occurred. If headlines are recent you can clip them out of magazines or newspapers, if they are in magazines or things that are not to be cut out just write down the Headline and the necessary info.
10. A Reflection on " *What Biology means to you now. . .* " Assignment (a paragraph reflecting on how your view of biology has changed) – Completed in December to be evaluated
- read your initial explanation of what biology means and then reflect on how your view has or hasn't changed over the semester.

11. Option: To Contract for Bonus Marks (up to 10%) See attached Contract info

How to create you Biology Portfolio:

- You need to decide how you want to keep all of this information together (in a duotang, scrapbook, hand made book, etc.) (*it has to be in a form that can easily be handed in and one that will keep things in order*)

- Complete the projects when required over the semester. **Do Not** leave this until May → you will be too stressed to do this well. Try to do a little bit at a time☺
- Follow directions provided in the above descriptions...
- *Remember that as you progress through this class your understanding of what biology is will likely change and that is a good thing.*

THE SET-UP:

1. Title page
2. Table of Contents
3. Each page or section should be labeled at the bottom of the page as to what section or requirement this fulfills. (*you may want to use dividers for some aspects)
4. Place assignments in the order given in the Assignment Description Section
5. Include one extra page at the back for comments
6. Try to make it look aesthetically pleasing.

EVALUATION & ASSESSMENT:

** Tentative marks have been assigned to each section. The marks are written in beside the various assignments.**

1. ____/ 3 Concept Map of Biology (Before)	
2. ____/ 5 Concept Map of Biology (After)	
____/ 2 concept map	
____/ 2 more extensive/ has changed	
____/ 2 aesthetic value	
3. ____/ 10 Biology Collage	
____/ 2 aesthetic value	
____/ 4 STSE all present	
____/ 4 Other pictures and relation to science	
4. ____/ 5 Bio Walk Observation Web	
____/ 2 shows connections	
____/ 2 well organized (shows categories, etc.)	
____/ 1 observations go beyond what is superficially visible	
5. ____/ 10 What Is Bio (Sept. Assign)	
____/ 2 Definition of Biology	
____/ 2 What bio means to me (shows thought, examples)	
____/ 2 Why bio is important to us (thought, examples, connections)	
____/ 4 STSE (mention each with example)	
6. ____/ 3 A definition of biology (Before)	
0- no effort copied class or dictionary; 1 -brief/ vague; 2- good def'n/ expand more; 3 -	
	-good def'n/ shows thought/concise
7. ____/ 3 A Definition of biology (After)	Compare with initial
8. ____/ 4 A definition of Science; Technology; Society; the Environment	1 mark X 4 terms
9. ____/ 72 Major Project	
	____/16 (2 marks each) 8 photographs
	____/8 picture explanation
	____/8 note re: where picture was taken
	____/10 Other pictures
	____/10 (1 X 10 explanations)
	____/10 (5 X 2 marks) Quotations, verse, etc.
	____/5 (1X5 marks) 5 headlines
	____/5 Aesthetic Value and Organization of Major Project
10. ____/ 5 What is Biology Reflection	Paragraph
11. ____/ 10 Setup	
	____/ 2 Neatness
	____/ 2 Creativity
	____/ 2 Organization
	____/ 2 Completeness
	____/ 2 Effort
12. Other Aspects/ Bonus	

BIOLOGY PORTFOLIO: CONTRACT FOR BONUS MARKS:

- You may contract for up to a 10% bonus on your portfolio.
 - To get bonus marks you must go above and beyond what would regularly go into a portfolio. You must extend your meaning, understanding or involvement in Biology.
 - Some possible examples might be:
 - including journal articles
 - short stories or literature
 - carry out an experiment
 - keep a journal
 - write a short story or play
 - collect biology related cartoons
 - collect and press leaves and flowers (identify them)
 - create a bio website
 - create a power point of biology
 - research different careers in biology
 - interview someone in a bio related field
- You must submit your proposed contract by Nov/April
 - Then we will conference on it and decide on what percent your extra work would mean.
 - Both parties must agree
 - **You may negotiate changes in your contract any time up until 3 days before the Portfolio final due date. After that the contract is final and binding.**
 - **A LATE portfolio on contract results in a loss of 10% plus an automatic loss of half of the possible bonus marks contracted for.**
 - The amount of bonus marks may depend on the quality of your portfolio in general.
 - You must show me your bonus assignments at least two weeks before the portfolio due date so that necessary changes can be made.
 - If you fail to complete the bonus marks that you have contracted for and they are not included in your portfolio you will lose the percent that you contracted for.

Name of Student: _____ DATE: _____

I, _____, agree to complete the following (see below for specific details) for a portfolio bonus of _____ (1-10%) as agreed to by myself and Mrs. Pipke-Painchaud.

Student

Teacher