Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_

**Accelerated Biology**

**Ecology**

**Tree Planting Extra Credit Opportunity**

There are many reasons why you could take a personal interest in planting a tree. In this project, you will select an appropriate species of tree, plant the tree, care for the tree, and hopefully come back in 50 to 100 years and see how the tree you placed on this Earth is doing. Along with planting your tree you will complete this form and promise to take care of the tree the first year.

Parameters:

1. Before you dig the hole, make sure that there are no underground phone lines, gas lines, water pipes, or power lines. Call JULIE at 1–800–892–0123 before you dig!
2. Once you choose an acceptable location, make sure that you are taking into account the size of the fully grown tree. Branches and roots need to avoid power lines, waterlines, foundations, etc.
3. Your tree must be at least four feet tall.
4. You personally must dig the hole and plant the tree.
5. You must submit the instructions, dated receipt, tree tag, and pictures of you with your tree (before, during, and after planting). You must also answer the questions on this page and turn these in with the rest of the information. You must also keep some pictures for yourself so you can show your grandchildren a picture of you and your tree in 10, 25, 50 or 100 years!
6. You must agree to water and care for your tree for the first summer so it can survive its most difficult year.

NOTE: Be sure to follow the directions carefully when planting your tree and avoid the most common problems (i.e., reasons for killing your tree). How do you do that?

* Don’t plant the tree too deeply. The top of the root ball (base of tree) should be even or slightly (2–4 inches) above grade.
* Remove clay (get rid of it altogether) if in the hole. The poor drainage will kill your tree!
* Don’t water too much or too little

Before you begin you must have your parent’s permission. Explain that this is optional and no student is expected to bear the cost of purchasing and planting a tree. Let your parents read this sheet and have them sign the consent on the back page. (Thank you in advance, parents!)

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Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I support this project and will supervise its completion including tree selection, site selection, planting, and care for the first year.

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(Parent Signature) (Date)

**On a separate sheet of paper please type your answers the following questions.**

1. What is the scientific name of your tree (in the proper format)? The common name?
2. What plant phyla does your tree belong to? Yes, I am asking you to think back to the previous unit! Tell me how you know this.
3. Describe the purpose of the tree. (Shade for the south side of the house, provides a wind break on the west side, beautiful flowering tree in the spring, evergreen for privacy, etc.)
4. Describe three abiotic conditions that are necessary for your tree’s survival.
5. Explain the procedure YOU followed when YOU planted the tree. Include how you ensured the protection of the roots while you were planting and why it was necessary.
6. Describe the care that you will give the tree over the next year (be sure to note the proper amount of water that you will give the tree).
7. Describe how your tree will add habitat for creatures found in the area. Identify potential inhabitants.
8. Describe what is happening to Earth’s atmospheric CO2 levels and why planting trees is so important.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_

**Accelerated Biology**

**Ecology**

**Environmentally Friendly Extra Credit Opportunity**

If you are unable to participate in the Tree Planting extra credit project you still have a chance to obtain extra credit by becoming a friend to the environment. I would like each of you (who chooses) to think about how you can make your home and surroundings more environmentally friendly. There are two parts to this extra credit opportunity. Please read below and if you have any questions, don’t hesitate to ask me.

**PART 1 – Research**

Your job is to research how you can make your house and surroundings more environmentally friendly. You must find and list at least 10 changes you can make to your house and/or surroundings. Included in the list needs to be what the change is, why this change helps the planet, and how you would go about performing the change (e.g. obtain energy saving light bulbs). DO NOT list, “Obtain energy saving light bulbs” on each line, you will only receive credit for each NEW idea. There is a maximum of 5 points to this part of the assignment. Hint: A more detailed list will result in higher points.

**PART 2 – Implementation**

Now it’s time to put your words into action. In order to receive an additional 5 extra credit points for Part 2, you will need to implement 5 of the changes that you listed in Part 1 and provide me with evidence. You’re probably asking yourself, “How do I do that?” Well, using the example from Part 1: Obtain the energy saving light bulbs (go out to the store and purchase them), supply me with a receipt, and take a picture to show evidence of you changing the light bulbs. I do need to see the receipt; if your house already has energy efficient light bulbs, then that was not a change you helped to make.

You have the opportunity to receive a total of 10 extra credit points for this assignment. And to answer your question, NO, you CANNOT receive extra credit for both (planting a tree and environmentally friendly). You must perform one OR the other.