Name:			

## **Genetic Engineering Simulation**

Go to the following webpage <a href="http://www.pbs.org/wgbh/harvest/">http://www.pbs.org/wgbh/harvest/</a> Complete each activity and answer questions as you go.

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Complete the Transgenic Manipulation simulation and answer the questions as you complete the activity. What is the purpose of the activity "Transgenic Manipulation?" 3. 4. What does Bt stand for? Why would someone want this gene in a crop plant?\_\_\_\_\_\_ What is a vector? 5. 6. Why was the vector inserted into the bacterium? How does an Agrobacterium cell "grow?" What is the purpose of this growth? 7. Why were small pieces of the tomato plant leaf added to the Agrobacterium cells?\_\_\_\_\_ 8. What happens to the plant cells once they are placed in the growth medium? 9. Why were the plant cells sprayed with herbicide? 10. How would you know if you had actually successfully produced the desired trait? 12. **Guess What's Coming For Dinner:** Complete the Simulation: Click on each item and learn how each is being genetically engineered and why they are being genetically engineered 13. Bananas: 14. 15. Coffee: 16. Sushi: (rice) \_\_\_\_\_ (salmon) \_\_\_\_\_ 17. Corn: \_\_\_\_\_ 18. French fries (potatoes): 19. 20. Petunias:

**Transgenic Organisms Examples**Search for examples of transgenic organisms and write about 5 that you found.

1.

2.

3.

4.

5.