Name:	Group:	Date:	
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ENHANCED FOODS

STUDENT BOOK: Chapter 8, pp. 236–251
CONCEPTS: GENETIC TRANSFORMATION
CELL CULTURES

METHOD: EXPERIMENTAL

Scientists use many processes to modify plant genes in order to obtain plants possessing beneficial new traits for agriculture or food. Imagine an enhanced fruit or vegetable. What would it look like? What colour would it be? What texture? What growth characteristics? In this activity, picture yourself as a scientist using biotechnology to invent a new way to enhance a fruit or vegetable.

IDENTIFYING THE PROBLEM

Read pp. 236–251 in your student book for help in answering the following questions.

1.	What is biotechnology?					
2.	In your opinion, how can biotechnologies improve a plant, fruit or vegetable?					

	Group: Date:				
T,	ABLISHING AN EXPERIMENTAL PROTOCOL				
	Name six steps in a genetic transformation and explain what you would do in each step to modify the food you chose.				
S	Step 1:				
٧	Vhat you would do:				
_					
S	Step 2:				
٧	Vhat you would do:				
_					
\$	Step 3:				
V	Vhat you would do:				
5	Step 4:				
_ V	Vhat you would do:				
_					
5	Step 5:				



Name:	Group:	Date:				
12. Do you think your project	Do you think your project stands a chance of succeeding? Why?					
-						
13. Do you think you could do	the same kind of experiment	t with an animal? Why?				
REFLECTING ON YOUR AP	PROACH					
14. How could you improve your experimental protocol?						