10 SCIENCE BIOLOGY ASSIGNMENT: GENETICALLY MODIFIED CROPS 2015

Name:		Teacher: Miss Cerny
Form:		Due date:
	135/4	

Aim: This assignment will allow you to research information about genetically modified food.

Hint: page 25-26 of your text book has information you can use @

Plagiarism:

You must write in your own words not copy sentences word for word from another student or another source. Plagiarising = instant zero on assignment and you will have to re-do it.

Assessment policy:

Have sick note/legitimate reason from parent = new negotiated due date.

Assignment not submitted on due date and no sick note from parents = -20% mark

Assignment not submitted on new negotiated due date = -40% mark

- + Letter home to parents.
- + Must attend academic completion to complete assignment.

OR

Submit assignment to student services before academic completion date and academic completion not necessary. Academic completion not attended = zero on assignment + Saturday detention.

If you know that you cannot submit your assignment on the due date, let me know BEFORE the due date or just email me your assignment the night before/day it is due and bring the hard-copy in the following day.

My email is: s.cerny@aranmore.wa.edu.au

ANSWER KEY

1. In your own words, write a few sentences that explains what genetic modification is.	(4 marks)
The use of modern biotechnology	
the use of modern biotechnology techniques to change the genes	
of an organism	
of an organism.	
Using genes from one organism and	
using genes from one organism and inserting them into another.	
Choose either GM canola <u>OR</u> Golden rice	
2. Name of your GM crop:	
3. Explain how your chosen crop has been modified (changed).	
What is a characteristic that is has now that it didn't have before it was modified?	(3 marks)
Golden rice - beta - carotene is added	
to it which converts to vitamin A in	
the body.	
7 100 000	
GM canola-is resistant to herbicide	
so when it is sprayed the weeds	
alie but the canola doesnt.	

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4. Describe two advantages of genetically modifying your chosen crop.	one mark (2 marks) each advantage
- Has beta-carotene which conve	cts in the body to
vitamin A reducing risks of bline	elness,
GM Canola - allo	us growers to
- Resistant to herbicide co	mpete in interational
5. Describe three benefits of GM crops in general (not including the bene	
· LM crops ussally more resi	
· CM crops can provide great	•
-am crops need less pestici	
One maile ea	<u></u>

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6. Some groups of people are against genetically modified crops (anti-GM). Describe three claims these groups of people make against GM crops and for each one explain whether or not you think it is valid (rational, justifiable) and explain why/why not. (6 marks)					
Claim 1:	(1)) Claim			
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Claim 2: _	<u> </u>	clain			
	()	opinion			
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Claim 3: _		Claim			
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 Decide whether you support the continued use of GM foods in Australia and justify your decision (explain why). (3 ma 						n why). (3 marks)	
	whether	they	support	0(<u>101</u>		
	1		(3)				
	Explain	<u> </u>	2				
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8. Look at the following groups in Australia and state whether they are for growing GM crops in Australia or against growing GM crops in Australia. For each group, write a quote you found on the website that supports your answer.

(10 marks)

Group	Pro-GM or anti-GM	Evidence to support your answer
Crop Life Australia		
www.croplifeaustralia.org.au/	p10-6M	auoté
Biotechnology Industry Organization http://www.bio.org/	Pro-GM	quote
Producers Forum www.producersforum.net.au/index.htm	P10-GM	quote
Ag Bio World http://www.agbioworld.org/	P10-6M	'quote'
True Food Network www.truefood.org.au/index.php	Anti-GM	'qook'

Reference list

Minimum of two references.	(1 mark)			
Minimum of two different sources (book, encyclopedia, video, website, journal, magazine, newspaper).	(1 mark)			
Referenced using the style below (pg. 180 of your diary has more information).				
Author (Year) Book title				
Book: Mack, C. (2005). Looking at the Renaissance: Essays toward a conceptual appreciation. London, UK; Taylor & Francis.				
Place of publication Publisher				
Author (Year) Title				
Web Page: Steel, W. (2008). Hints for web authors. Retrieved from				
nttp://www.mcsr.olemiss.edu/~mudws/webnints.ntml				
URL of the web page				
Assignment is neatly written or typed.	(1 mark)			
Correct grammar and spelling.	(1 mark)			
	(2111411)			
Total mark: /35 %				
Teacher comments:				