

Grades 9-10
Curriculum-Embedded Performance Task
Strand IV: Cell Chemistry & Biotechnology



Bio-engineered Food
Science, Technology & Society
Teacher Materials

Bio-engineered Food

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This curriculum-embedded science performance task is related to the content standards and expected performances for Grades 9-10, as described in the Core Science Curriculum Framework, under Scientific Inquiry, Literacy and Numeracy, Strand IV – Cell Chemistry and Biotechnology.

Targeted Content Standard

10.3 - Similarities in the chemical and structural properties of DNA in all living organisms allow the transfer of genes from one organism to another.

Targeted Scientific Inquiry, Literacy and Numeracy Standards

D INQ. 2 Read, interpret and examine the credibility and validity of scientific claims in different sources of information.

D INQ. 9 Articulate conclusions and explanations based on research data, and assess results based on the design of an investigation.

D INQ. 10 Communicate about science in different formats, using relevant science vocabulary, supporting evidence and clear logic.

Learning objective:

Students will assess the risk versus benefit of genetically altered food sources and use their research to defend a position in favor of or opposed to labeling genetically altered foods.

Materials:

Access to computer/Internet

Considerations:

Information specific to genetically altered food sources may be found at these and many other websites:

<http://scope.educ.washington.edu/gmfood/>

<http://pewagbiotech.org/newsroom/releases/062702.php3>

<http://www.who.int/foodsafety/publications>

<http://actionbioscience.org/biotech/>

