

Генетически модифицированные продукты: за и против

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Предмет: Английский язык.

Класс: 10.

Тема: 1. Здоровый образ жизни. 2. Современные технологии.

Профиль: Гуманитарный.

Уровень: Продвинутый.

Текст задачи. Genetically — modified foods have made a big splash in the news lately. Public interest groups have been actively protesting against GM foods.

What are the arguments for and against genetically engineered food?

Are you aware of the danger?

What can you do to protect your health?

a) Выделите ключевые слова для информационного поиска.

б) Найдите и соберите необходимую информацию.

в) Обсудите и проанализируйте собранную информацию.

г) Сделайте выводы.

д) Сравните ваши выводы с культурными образцами.

Возможные информационные источники

Книги:

Enterprise 3 Coursebook. Virginia Evans — Jenny Dooley. Express Publishing. 2002

John B. Fagan, Ph. D. Professor of Molecular Biology. Maharish: University of Managemat.

Web-сайты:

http://en.wikipedia.org/wiki/Genetically_modified_food

<http://www.greenpeace.org/international/campaigns/genetic-engineering>

http://www.ornl.gov/sci/techresources/Human_Genome/elsi/gmfood.shtml

<http://www.twinside.org.sg/title/hots-cn.htm>

<http://www.raw-wisdom.com/50harmful>.

<http://www.actionbioscience.org/biotech/pusztai.html>

Культурный образец

Liberty House, New Greenham Park, Newbury, Berkshire RG19 6HW

<http://www.expresspublishing.co.uk>
Virginia Evans-Jenny Dooley, 1997

*ENTERPRISE 3 COURSEBOOK
Pre-Intermediate Virginia Evans-Jenny Dooley Express Publishing*

Genetically engineered foods containing genes derived from bacteria and viruses are now starting to appear in the shops, and foods with insect, fish, and animal genes will soon follow. These genetic changes are radically different from those resulting from traditional methods of breeding. The sale of these foods is being permitted without proper assessment of the risks and without informing the public, even though many

scientists say that genetically modified foods could cause serious damage to health and the environment.

Genes are the blueprints for every part of an organism. Genetic engineering is the process of artificially modifying these blueprints. Scientists want to transfer desirable qualities from one organism to another, for example, to make a crop resistant to an herbicide or to enhance food value.

At first sight it may seem appealing. However, closer examination reveals that commercial and political motives are taking precedence with little regard to the possible dangers. We already have the ability to feed the world's population without the risks posed by genetic engineering.

Genetically modified foods available, or about to appear include tomatoes, squash, yeast, corn, potatoes and soybeans (which are used in 60% of all processed foods, such as bread, pasta, candies, ice cream, pies, biscuits, meat products). But this is just the beginning. In a few years it may be almost impossible to find natural food.

Most genetically modified foods will not be labeled, under present regulations manufacturers are already introducing genetic modified ingredients into many processed foods without informing consumers. The government is ignoring the wishes of the public. Surveys find that 85–90% of consumers want clear labeling of all genetically engineered foods.

The effects of genetic engineering on the natural world may be disastrous.

The engineers may create life forms — monsters — that we cannot control. The new life forms have no natural habitat or home. They will have to find one, fight for one or kill one. It may be your land they fight for or you that they kill.

Moreover, the effects of these experiments can often be cruel. In

America, pigs were given human genes to make them bigger and less fatty. The experiment failed the pigs became very ill and began to lose their eyesight.

Greenpeace is trying to prevent all such food experiments. Some but not all — food companies are refusing to use genetically engineered foods. Some but not all — supermarkets are telling their customers which foods are genetically engineered. We must all be aware of what is happening.

Some people believe, though that genetic engineering could be the solution to the problem of famine. Plants which grow faster, or cows which produce more milk can save the lives of starving people.

We would all like a better, healthier and longer life, and genetic engineering might give us this. On the other hand, it may be a dangerous experiment with nature. In the story, Frankenstein created such a terrible and dangerous monster that he had to destroy it. We must make sure that it remains a story — and no more than that.

Методический комментарий

Перед решением задачи необходимо выяснить мнение ребят по вопросу обсуждения: за или против. Разделить детей на две группы для решения задачи. Поиск материала осуществляется в соответствии с выбором позиции. При решении задачи может быть организована дискуссия. Форма проведения дискуссии — деловая игра (как вариант — «Заседание суда» с обвинением и защитой. В этом случае дети определяют свои роли и подбирают аргументы, соответствующие стороне обвинения или защиты. А значит, на этапе поиска в более концентрированном виде будет собрана информация).