	• The "Fish Tomato" is another great example:
	Tomatoes (and other fruits) are important sources
	of and other nutrients for the heart,
	liver, and other organs
	They can't be grown in cold climates – they
	and die!
	Fruit is veryfor people who live
	in these areas, and they suffer from malnutrition
	because they can't afford to buy them.
	A fish called the Winter Flounder can live in
	freezing temperatures because it has a
	that prevents ice crystals from forming,
	preventing!
	The gene for the protein is removed from the
	fish's DNA.
	It is inserted into the DNA of the tomato plant.
	The tomato plant now makes the antifreeze protein - it doesn't
	The tolliato plant now makes the antiffeeze protein. It doesn't
	People living in places where it gets cold can now grow fruits like
	tomatoes!
Se	olf Check 1
1	Riotechnology is the use of to for a group of to for accomplish a task
2	Three examples of biotechnology include, and
۷.	, und
3.	Elf Check 1 Biotechnology is the use of to foir. It of like or accomplish a task. Three examples of biotechnology include, and Genetic engineering in bly Schanging an organizate information to give it new Two examples of selectic engineering are rice and the
<i>4</i> .	Two example of selectic engineering are
5.	
٥.	would you cat golden nee and/or hish-tomatoes: why or why not:
Н	ow Does It Work?
•	Genetic engineering is possible because ALL living things use to make in the same
_	
	way • DNA \rightarrow RNA \rightarrow Protein; The
•	A enzyme is used to remove the gene to be inserted.
	Restriction enzymes cut DNA at nucleotide sequences
	• When the gene is cut, it has a " end" The DNA of the aggregation that will get the new consistely and with the corne postriction and were the constant of the corne postriction.
•	The DNA of the organism that will get the new gene is also cut with the same restriction enzyme.
	• It gets the "sticky ends"
	• The gene's sticky ends to those of the DNA
	molecule
	The gene is now inserted! Restriction Enzyme Hnd2
	Sticky end Tomato DNA Fish DNA
	Sticky end

Tomato-Fish DNA