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genetic engineering also called genetic modification is a process that uses laboratory based technologies to alter the dna makeup of an organism this may involve changing a single base pair a t or c g deleting a region of dna or adding a new segment of dna genome the totality of all the genetic material deoxyribonucleic acid or dna in an organism organised in a precise though by no means fixed or constant way in the case of viruses most of them will have ribonucleic acid or rna as the genetic material genotype the precise variant s of the gene s carried by an individual genetic engineering or genetic modification is a field of genetics that alters the dna of an organism by changing or replacing specific genes used in the agricultural industrial chemical pharmaceutical and medical sectors genetic engineering can be applied to the production of brewing yeasts cancer therapies and genetically modified genetic engineering the artificial manipulation modification and recombination of dna or other nucleic acid molecules to modify an organism the term is generally used to refer specifically to methods of recombinant dna technology learn about the history techniques and applications of genetic engineering definition genetic engineering also called genetic modification is a process that uses laboratory based technologies to alter the dna makeup of an organism this may involve changing a single base pair a t or c g deleting a region of dna or adding a new segment of dna step 1 dna extraction step 2 gene cloning step 3 gene design plant transformation and tissue culture agrobacterium mediated plant transformation inheritance of a transgene in plants step 5 backcross breeding the process of plant genetic engineering study with quizlet and memorize flashcards containing terms like enzyme dna gene and more study with quizlet and memorize flashcards containing terms like restriction enzymes gel electrophoresis restriction map and more genetic engineering vocabulary list learn with flashcards games and more for free genetic engineering also called genetic modification or genetic manipulation is the modification and manipulation of an organism s genes using technology it is a set of technologies used to change the genetic makeup of cells including the transfer of genes within and across species boundaries to produce improved or novel organisms science clarified real life physics vol 3 biology vol 1 genetic engineering key terms amino acids organic compounds made of carbon hydrogen oxygen nitrogen and in some cases sulfur bonded in characteristic formations strings of amino acids make up proteins base pair when it comes to biotechnology there is a confusing multi textured vocabulary where many different words can be used to describe the same process bioengineering genetic engineering genetically modified genetically modified organism gmo genetic editing gene editing genome editing and biotechnology are just some of the terms commonly used definitions of genetic engineering noun the technology of preparing recombinant dna in vitro by cutting up dna molecules and splicing together fragments from more than one organism genetic engineering noun the group of applied techniques of genetics and biotechnology used to cut up and join together genetic material and especially dna from one or more species of organism and to introduce the result into an organism in order to change one or more of its characteristics genetically engineered adjective genetic engineering vocabulary words get a hint genetic engineering click the card to flip the development and application of scientific methods procedures and technologies that permit direct manipulation of genetic material in order to alter the hereditary traits of a cell organism or population click the card to flip 1 10 aim this page contains the genetic engineering vocabulary that goes with the eap course to find a word hold down the ctrl key on your keyboard then press f instructions for each word you can 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genome the totality of all the genetic material deoxyribonucleic acid or dna in an organism organised in a precise though by no means fixed or constant way in the case of viruses most of them will have ribonucleic acid or rna as the genetic material genotype the precise variant s of the gene s carried by an individual

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when it comes to biotechnology there is a confusing multi textured vocabulary where many different words can be used to describe the same process bioengineering genetic engineering genetically modified genetically modified organism gmo genetic editing gene editing genome editing and biotechnology are just some of the terms commonly used

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definitions of genetic engineering noun the technology of preparing recombinant dna in vitro by cutting up dna molecules and splicing together fragments from more than one organism

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genetic engineering noun the group of applied techniques of genetics and biotechnology used to cut up and join together genetic material and especially dna from one or more species of organism and to introduce the result into an organism in order to change one or more of its characteristics genetically engineered adjective

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a genetic engineering c hybridization b inbreeding d gel electrophoresis 15 what will cut a dna sequence only if it matches the sequence precisely a plasmid c polymerase chain reaction b genetic marker d restriction enzyme
16 a method used to compare the genomes of different organisms or different individuals is called a

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