Chromosomes and human heredity study guide

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# KARYOTYPES AND PEDIGREES

Inheritance of Genetic Traits

There		Diseases U				
. There		ypes of asexual repr ion - example: <u>bacte</u>		non. Name all 5 a	na give an exan	ipie of each.
	B udding	on compre	- 0	xample: yeast		
	C utting			example: spider plant		
	R unners		(	example: strawberries	5	
	R egeneratio	n - ex	ample:	starfish		
	Co	mparison of Ase	xual	versus Sexual	Reproduction	1
	Number of Parents (cells)	What type of organisms		of Chromosomes rents-vs-offspring	Variety of DNA (more of less)	Examples
sexual	1	unicellular	some		less	bacteria
iexual	2	multicellular	half		more	human
. Comp	pare the proce	ss of Mitosis and Me	eiosis	. Use your meiosis	s notes to help	you.
[	Mitosis			Meiosis		
1	A STATE OF THE PARTY OF THE PAR	of reproduction: or sexual		Circle the type o asexual o	THE REAL PROPERTY.	

# Chromosomes and Heredity

modified from: http://brookings.k12.sd.us/biology/other\_units.htm A family record that shows how a trait is inherited over several generations is called a

What type of cells are produced:

How many cells are produced: 4

original parent cell?

Sex cells

How does the DNA compare to the

A. karyotype

What type of cells are produced:

How many cells are produced: 1

original parent cell?

How does the DNA compare to the

Non-sex cells

- B. Punnett square
- C. pedigree
- D. periodic table

A person that has ONE copy of an AUTOSOMAL RECESSIVE allele and does not express the

trait, but can pass it along to his/her offspring is called a \_\_\_

- A. mutant B. carrier
- C. hemophiliac
- D. gene marker

The failure of homologous chromosomes to separate during meiosis is called

- A. segregation
- B. codominance C. sex-linkage
- D. nondisjunction

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This picture of an organism's chromosomes is called a \_

- A. pedigree
- B. Punnett square C. karyotype

The person shown at the left is a because they have two X chromosomes.

B. female A. male

The chromosomes that DO NOT determine sex are called

- A. sex chromosomes
- B. autosomes
- C. gene markers
- D. pedigree partners

Which parent determines the sex of the baby?

- A. father
- B. mother

1			

CASE AGPIRE (Objectories)

#### COMPLETE ANDROGEN INSENSITIVITY SYNDROME IN THREE SISTERS: A CASE REPORT

Entire OCHEMIR, Moreth Edios SARA, Evins ARCHET, Stones EDCGMIA, Comel Rend XTALAS

Department of Obstateigs and Conscarlege, Autors Namura Education and Remarch Hospital, Autors

### NUMBER

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million people every year. What was puzzling was why sickle cell anemia was so prevalent in some African populations.

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Heredity and genetics answer key. Chapter 11 section 3 chromosomes and human heredity study guide answers. Human heredity answer key.

Parents pass on traits to their children through their genes. Genes are the blueprint, mostly stored inside a special sac within the cell called the nucleus. Genes are part of chromosomes, which are long strands of a chemical substance called deoxyribonucleic acid

(DNA). Therefore, genes are made up of DNA. A DNA strand looks like a twisted ladder. The genes are like a series of letters strung along each rung. These letters are used like an instruction book. The letter sequence of each gene contains information on building specific molecules (such as proteins or hormones, both essential to the growth and maintenance of the human body). The genes are copied 'letter for letter' to a similar substance called ribonucleic acid (RNA). The working parts of the cell read the RNA to create the protein only, but one protein may have many different roles in the human body. Also, one characteristic, such as eye colour, may be influenced by many genes Recall that the nucleus of a eukaryotic cell contains the DNA, the genetic material of the cell. The DNA contains the information necessary for constructing the cell and directing the multitude of synthesis tasks performed by the cell in the process of life and reproductionInside the nuclear envelope is the chromatin, meaning "colored substance" after the early experiments in which forms long strands called chromosomes. State that a gene is a section of a molecule of DNA, act as instructions to make molecules called proteins. In humans, genes vary in size from a few hundred DNA bases to more than 2 million bases. The Human Genome Project has estimated that humans have between 20,000 and 25,000 genes. Every person has two copies of each gene, one inherited from each parent. Define gene, allele and genome. Define: molecular unit of heredity of a living organismallele - An allele is one of two or more versions of a gene.genome - A genome is an organism's complete set of DNA, including all of its genes. Describe a DNA moleculeDescribe: Give a detailed account. image from www.britannica.com DNA, or deoxyribonucleic acid, is the hereditary material in almost all living organisms. Nearly every cell has the same DNA. Most DNA is located in the cell nucleotides. Each nucleotide contains a phosphate group, a sugar group and a nitrogen base. The four types of nitrogen bases are adenine (A), thymine (T), guanine (G) and cytosine (C). The order of these bases is what determines DNA's instructions, or genetic code. Nucleotides are attached together to form two long strands that spiral to create a structure called a double helix. Explain DNA replication Explain: 2012books.lardbucket.org All organisms must duplicate their DNA with extraordinary accuracy before each cell division. DNA replication begins with the "unzipping" of the parent molecule by the enzyme helicase as the hydrogen bonds between the base pairs are broken. Once exposed, the sequence of bases on each of the separated strands serves as a template to guide the insertion of a complementary set of bases on the strand being synthesized. The new complementary strands are put back together with the enzyme DNA polymerase. Some DNA polymerases also have proofreading ability; they can remove nucleotides from the end of a growing strand in order to correct mismatched bases. When the process is complete, two DNA molecules have been formed identical to each other and to the parent molecule. Outline: Give a brief account or summary image from www.contexo.info Protein synthesis requires two steps: transcription and translation. Transcription is the process of making an RNA copy of a gene sequence. This copy, called a messenger RNA (mRNA) molecule, leaves the cytoplasm, where it directs the synthesis of the protein, which it encodes Translation is the process of translating the sequence of a messenger RNA (mRNA) molecule to a sequence of amino acids during protein synthesis. The genetic code describes the relationship between the sequence of the mRNA in groups of three bases to assemble the protein. Define mutation as a change in a gene or chromosomeDefine: Give the precise meaning of a word, phrase or physical quantity A mutation is when a gene is copied incorrectly, this gene can be passed down. It doesn't happen very often or on purpose. Some variations are repaired by the cell's DNA error correction mechanisms. Other variations are not and can be passed on to subsequently replicated cells; in such cases, the variation occurs in a gamete (sex cell), then the mutation can be passed on to subsequently replicated cells; in such cases, the variation occurs in a gamete (sex cell), then the mutation occurs in a gamete (sex cell), then the mutation occurs in a gamete (sex cell), then the mutation occurs in a gamete (sex cell). (for example chemicals in tobacco) on the rate of mutationsOutline: Give a brief account or summary image from www.cancer.gov Radioactive materials that decay spontaneously produce ionizing radiation. Ionizing radiation has sufficient energy to break some chemical bonds. Any living tissue in the human body can be damaged by ionizing radiation. The body attempts to repair the damage, but sometimes the damage is of a nature that cannot be repaired or it is too severe or widespread to be repaired. Also mistakes made in the natural repair process can lead to cancerous cells. The most common forms of ionizing radiation are alpha and beta particles, or gamma and X-rays. Research studies have also shown that cigarette smoke and many air pollutants are strongly linked to chromosome damage in cells Describe: Give a detailed account, image from www.smithsonianmag.com Many people consider mutations in the human genome to be a negative event as they associate mutations with cell damage, cancer or genetic diseases. However, when proper research is done, we can see that this is in fact incorrect: few human mutations are actually bad, most are completely neutral, and in fact, many are beneficial. Without mutations, we could not exist as we do and there would never have been evolution and natural selection as we know it. Mutations allow genetic diversity to exist within a population, increasing the range of alleles and keeping the human species alive1. Malaria resistance. Generally, this is a harmful mutation since sickle blood cells are not as effective as normal cells in their functioning. In regions where there are increased cases of malaria, this mutation is favorable as individuals with blood cells that are sickle shaped are not likely to contract malaria. Lactose tolerance has made it simpler to wean young children. Nevertheless, human beings still like drinking milk. People found out they could use milk products as they had developed lactose tolerance even has a strong relationship with being descendants of cultures that used milk like a food. Identify the karyotype of an individual In every cell in the human body there is a nucleus, where genetic material is stored in genes. Genes carry the codes responsible for all of our inherited traits and are grouped along rod-like structures called chromosomes. Typically, the nucleus of each cell contains 23 pairs of chromosomes. Typically, the nucleus of each cell contains 23 pairs of chromosomes. Terms chromosomesgenesDNAgenetic materialCrickstructural proteinshormonessubstitution inversion mRNAtranscription polynucleotidephosphate groupnitrogenous baseribosomescomplementary basesreplicationmutationduplicationdeletiontRNApolypeptide base-pairing rulesense strandanti-sense strand triple codecodonRNAnatural selectionmutagenhistone uracilamino acid adeninethyminequaninecytosineintracellular enzymesuniversal codeprotein synthesissex chromosome karyotypeDown's syndromeSickle Cell Anemia Class Material Part 1 DNA Structure Part 2 DNA Replication Part 3 Transcription Part 4 Translation Part 5 Chromosomes Part 6 Mutations What do a man, a mushroom, and an elephant have in common? A very long and simple double helix molecule makes us more similar and much more different than any other living

syndromeSickle Cell Anemia Class Material Part 1 DNA Structure Part 2 DNA Replication Part 3 Transcription Part 4 Translation Part 5 Chromosomes Part 6 Mutations What do a man, a mushroom, and an elephant have in common? A very long and simple describe their form and function of so many different living things? The discovery of double-helix structure of DNA, but you most likely have not heard of her. Hank will attempt to fix this gap in your knowledge on today's Sci5how: In 1990, The Human Genome Project proposed to sequence the entire human genome over 15 years with \$3 billion of public funds. Then, seven years before its scheduled completion, a private company called Celera announced that they could accomplish the same goal in just three years at a fraction of the cost. Tien Nguyen details the history of this race to sequence the entire human genome, consists of a unique DNA sequence of A's, T's, C's and G's that tell your cells how to operate. Thank its race to sequence behind the sequence. Paul Andersen describes the molecular structure of DNA is described. The importance of hydrogen bonds in the 3-dimensional shape is also included. The sequence Paul Andersen explains how project, Paul Andersen explains how DNA replication ensures that each cell formed during the cell cycle has an exact copy of the DNA. He describes the Meselson-Stahl experiment and how it showed that DNA copies itself through a semi-conservative process. He then explains how molecular visualizations were created for the multifaceted 'DNA' project, Paul Andersen explains how DNA is also differentional and the lagging strand. He explains how DNA is native projects. He has polymerase, like DNA polymerase, like polymerase, like DNA polymerase, like DNA polymerase, like DNA p

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