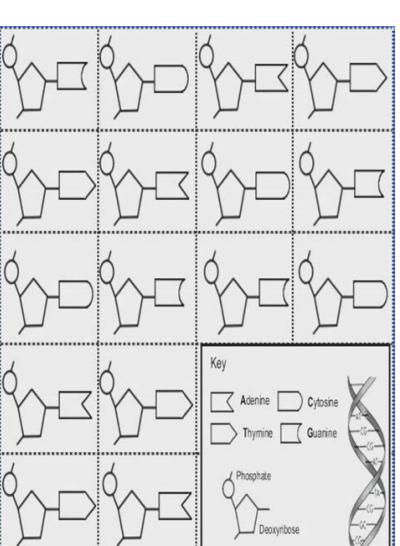


I'm not robot!



Cell Cycle & Meiosis Review

1. Identify and briefly explain the five phases of mitosis.
- Prophase: Nuclear envelope breaks down, cytoskeleton disassembles, chromosomes condense to become visible, microtubules (normally part of the cytoskeleton) begin to form on either side of the cell, forming mitotic spindles.
- Prometaphase: Proteins form around centromeres to create kinetochores (two per chromosome), microtubules attach to the kinetochores and start to move toward the center.
- Metaphase: Spindle fibers pull all chromosomes to the middle of the cell, form metaphase plate.
- Anaphase: Chromatids are torn apart at the centromeres by shortening spindles.
- Telophase: Nuclear envelope reforms on either side of cell, chromosomes unwind, mitotic spindle disassembles, cytoskeleton begins to reform.

2. If microtubules were unable to attach to reform after breaking down the cytoskeleton, what effect would this have on mitosis?

The chromosomes would not be able to move toward the center of the cell, hence the chromosomes will be unable to be moved or torn apart.

3. What does $2n$ or n signify?

$2n$ means the cell is diploid (has two versions of each chromosome, one from each parent), n means the cell is haploid (one version of each chromosome). Cell is likely a gamete.

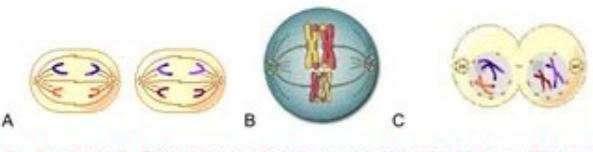
4. Compare the chromosome number in after mitosis, compared to meiosis.

Chromosome number is still diploid after mitosis (46 in the case of humans), haploid after meiosis (23 in humans).

5. What is a tetrad? How does this make mitosis different than meiosis?

A tetrad is two homologous chromosomes paired up. Synapsis (crossing over) can take place now. This happens in meiosis, but not mitosis.

6. Label which phase of meiosis each cell below should be in, and explain why:



A – Anaphase II: Sister chromatids are separating, but each chromatid is unique.

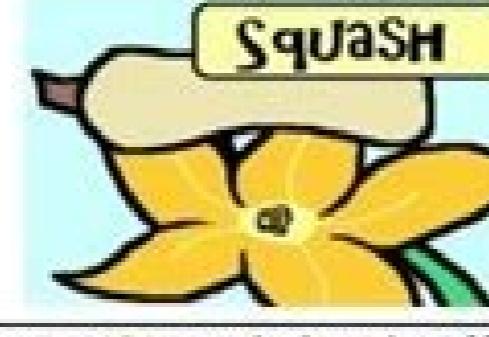
B – Metaphase I: Metaphase plate is made of tetrads.

C – Telophase I: Nuclei are reforming, containing full chromosomes (ister chromatids have not separated).

Amoeba Sisters Video Recap of Plant Reproduction in Angiosperms

1. What characteristics are common in angiosperms?

2. A topic emphasized in this clip is that not all fruits are sweet. Or even edible! Every plant that forms a flower must have a fruit. How would you define a "fruit"? How can fruits be helpful in seed dispersal?



3. Flowers can contain one or both genders of flower parts.

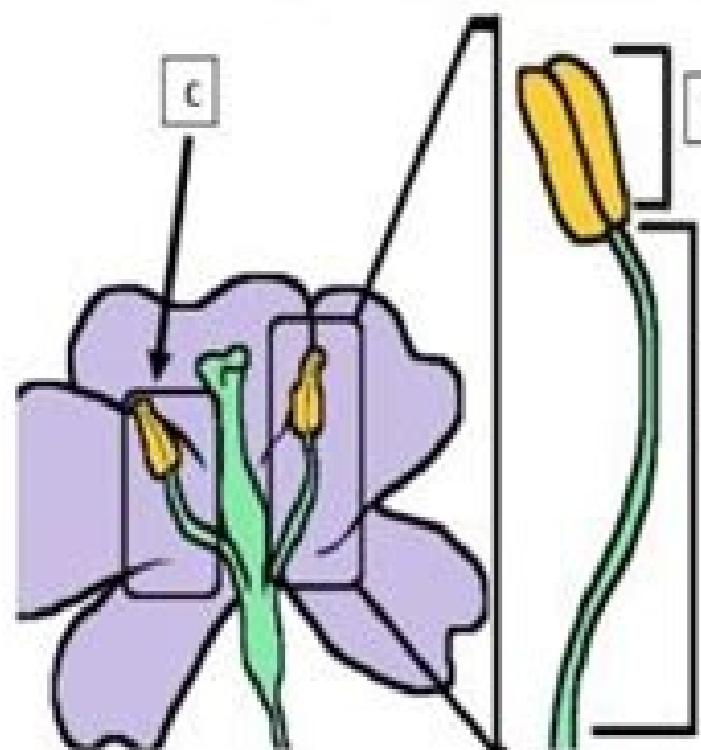
Label A, B, and C.

A is the _____.

B is the _____.

C is the _____.

All of these are which gender? _____



4. Flowers can contain one or both genders of flower parts.

Label D, E, F, and G.

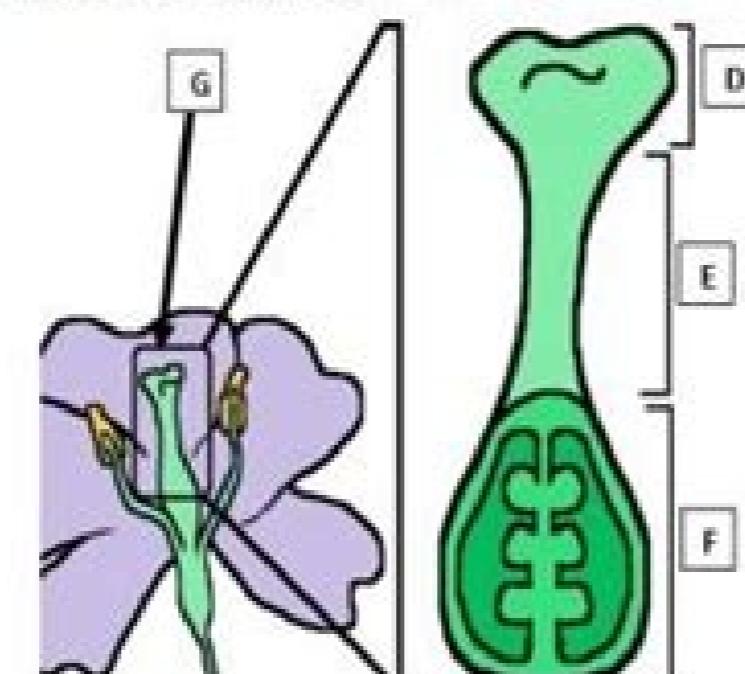
D is the _____.

E is the _____.

F is the _____.

G is the _____.

All of these are which gender? _____



Amoeba Sisters Video Recap

Amoeba Sisters Video Recap: DNA vs. RNA & Protein Synthesis (APUSH 10)

Amoeba Sisters Video Recap: DNA vs. RNA & Protein Synthesis (APUSH 10)

1. _____ DNA is double stranded.

2. _____ RNA is single stranded.

3. _____ DNA stores the information needed to construct proteins for cell function.

4. _____ RNA encodes nucleotide bases, giving them a complementary base ("base pairing").

5. _____ Nucleic acids consist of nucleotides.

6. _____ Nucleotides consist of phosphate groups.

7. _____ Nucleotides consist of nitrogenous bases.

8. _____ Nucleotides consist of pentose sugars.

9. _____ Nucleotides consist of nucleic acids.

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11. _____ Nucleotides consist of nucleic acids.

12. _____ Nucleotides consist of nucleic acids.

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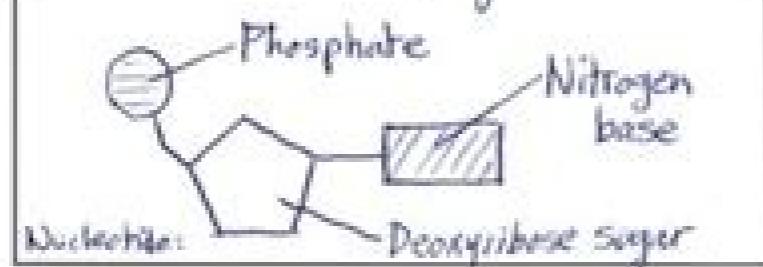
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NAME: Key

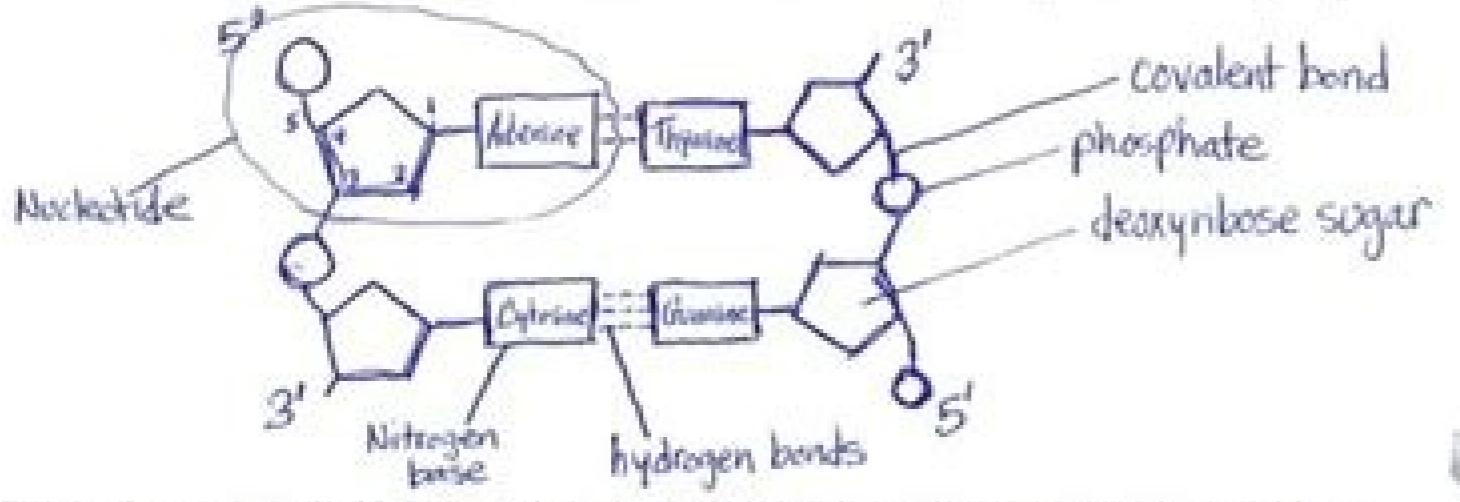
1. Draw a single nucleotide, labeling the phosphate, deoxyribose sugar and nitrogen base, in the box to the right:



- ## 2. Compare DNA and RNA.

DNA	RNA
Similarities:	Nucleic acid polymers made up of nucleotides
	• Contain nitrogen bases Adenine, Cytosine, and Guanine
Differences:	
Deoxyribose sugar	Ribose sugar
Double-stranded (helix)	Single-stranded (non-helix)
Thymine is fourth nitrogen base	Uracil is fourth base

3. Draw and label a double stranded segment of DNA with four nucleotides (arranged in two base pairs):

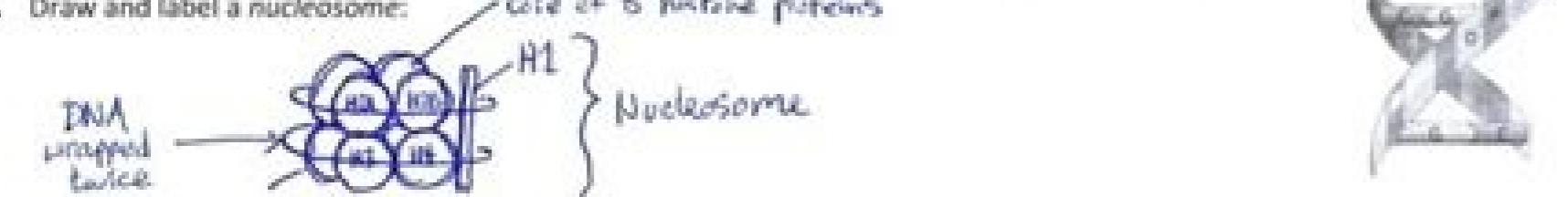


4. The diagram shows a DNA double helix. How does a double helix form? What bonds hold it in position?
DNA double helix is formed by two polynucleotide strands running anti-parallel to one another. Covalent bonds join nucleotides.

DNA double helix is formed by two polynucleotide strands running antiparallel to one another. Covalent bonds join nucleotides in sugar-phosphate backbone. Hydrogen bonds join nitrogen base pairs.

Draw and label a nucleosome: core of 8 histone proteins

5. Draw and label a nucleosome.



- 6. What are the functions of nucleosomes?**

Nucleosomes allow packaging / supercoding of DNA into chromosomes for easy separation in mitosis/meiosis. When DNA is wrapped around nucleosomes it cannot be transcribed/translated so this allows genes to be turned "off."

7. Describe what is meant by 'Highly-repetitive DNA sequences' and list several functions of these sequences.

Nucleotide sequences in DNA that do not code for production of proteins – also called introns. Repeating base letter patterns are ~5-300 letters long (e.g. NNNNG) and build up mutations quickly without affecting organism (since they don't code for traits) which makes them helpful for DNA fingerprinting. They also make up telomeres, produce tRNA and rRNA, and help promote or silence gene expression.

Answers to amoeba sisters video recap.

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