Amoeba Sisters Video Recap: Mutations (Updated)

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ate cine,		
3. On the DNA illustration, draw an arrow to show where the answer to #2 could be located. This is NOT the protein I ordered! Ordered! Ordered! Ordered! Ordered. Dude. It's because your codes for amino codes for amino codes for amino codes for amino codes.		
5. Which type(s) of organism(s) can experience a mutation? Mark any that nucleotide base, can still make a major change		
apply. Consider the below information for normal hemoglobin:		
Protists Sickle Cell Anemia is caused by a point mutation known as a substitution. Show what would occur <i>if</i> the <i>first</i> T ("thymine") DNA base in the portion shown above experienced a mutation with a substitution of A ("adenine").		
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7. An insertion or deletion can result in a frameshift mutation . To demonstrate this, complete the following. <i>Note: You will need a codon chart.</i>	8. Check your understanding! Mark any that are <i>correct</i> . Mutations are random.	
Note. Tod will need a codoff chart.		
Normal Strand: DNA: GCA ATG CAC	Mutations are mostly beneficial and useful for an organism.	
mRNA:	Mutations can occur in both DNA and RNA, which are nucleic acids.	
Amino Acids:		
Deletion (causing a frameshift): Taking out the first "G" in the original DNA above results in:	Mutations can only occur during interphaseNot all genes code for proteins.	
DNA: CAA TGC AC	Not all genes are "turned on" at a given	
TO DATA.	time.	
MRNA:	Substitution mutations typically result in a frameshift mutation.	
How did the frameshift change the amino acids?	Mutations can be genetically inherited.	
Chromosome Mutations		
Sketch It! Create illustrations to show the following chromosome mutations. Note: Chromosomes exist in both prokaryotic and eukaryotic cells, but prokaryotic chromosome structure tends to be very different from eukaryotic chromosomes.		
9. Duplication	10. Deletion	
11. Inversion	12. Translocation	
II. IIIVEISIOII	12. Hansiocation	

