Amoeba Sisters Video Recap – DNA, Chromosomes, Genes, and Traits: An Intro to Heredity

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| 1. A picture containing text  Description automatically generatedExplain what this image represents regarding where your entire DNA code can be found.

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| 1. **One of these images** represents **sexual reproduction, and the other represents asexual reproduction. Label them and then briefly describe what each means in your own words.**
 | Diagram  Description automatically generated with medium confidence\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Explain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Diagram  Description automatically generated\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Explain:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Diagram  Description automatically generatedSpike is not a clone of his father. He inherited DNA from both of his parents. Chromosomes are condensed units of DNA. **If** Spike has 36 chromosomes, you would expect that Spike would have inherited \_\_\_\_\_ chromosomes from his mother and \_\_\_\_\_ chromosomes from his father.
2. How did you determine the chromosome numbers?

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| 1. Label the diagram on the right using the following words:

Graphical user interface, text, application  Description automatically generated(**A) Sugar, (B) Phosphate, (C) Nitrogenous Base**1. What is a nucleotide?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_How many nucleotides do you see in this diagram? \_\_\_\_\_\_1. What are the four different types of bases in DNA and how

do they pair?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_1. In your own words, what is the relationship of DNA bases

and traits such as hair colour, eye colour, etc?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 1. Label the illustration with the following words:

DNADouble Helix\*NucleotidePhosphateSugar Nitrogenous BaseChromosomeCentromere\*\* Not directly covered in video. Ask your teacher! |