**Chromosomal Mutations**

The chart below contains the names of chromosomal mutations and a space to write in their description and draw what a chromosome with this mutation would look like. Your task is to use the descriptions on the chromosomal cards on pg 2 to match them with the mutated chromosome. Then, go back and fill in the descriptions for each and draw the mutated chromosome.

**Normal chromosome:**

6

5

4

3

1

2

|  |  |  |
| --- | --- | --- |
| **Chromosomal Mutation** | **Description** | **Mutated Chromosome** |
| **Deletion** |  |  |
| **Duplication** |  |  |
| **Inversion** |  |  |
| **Translocation** |  |  |

**Chromosomal Mutations Cards**

**\*\*The middle and right-hand columns are all mixed up! Write the correct descriptions and mutated chromosome sketches in the correct locations on the first page.**

|  |  |  |
| --- | --- | --- |
| **Names**  **Deletion** | **Description**  **A portion of the chromosome has broken off,**  **turned upside down and reattached, therefore the**  **genetic material is backward** | **Mutated Chromosome**  1  2  3  4  20  19 19  18 18  6  5  **(Draw this in your data table.)** |
| **Duplication** | **A portion of the chromosome is missing or deleted.** | **Mutated Chromosome**  4  6  5 56  1  3  2  **(Draw this in your data table.)** |
| **Inversion** | **When a portion of one chromosome is transported to another chromosome.** | **Mutated Chromosome**  6  6  5  4  3  2  1  **(Draw this in your data table.)** |
| **Translocation** | **A portion of a chromosome is duplicated, resulting in extra genetic material.** | **Mutated Chromosomes**  6  5  4  2  1  **(Draw this in your data table.)** |