Genetic Disorder Presentation Assignment

Using your newfound expertise in genetics you are going to research a genetic disorder and give a short presentation or make a short video on this disorder discussing the information below. If you need help researching your assigned disorder, librarians are a great resource.

Your presentation should include the following information:

- The name of the genetic disorder
- What the genetic disorder is (a description of the disorder including symptoms)
- A personal account of (conduct an interview of someone in the community or online that has this genetic mutation)
  - How this disorder affects daily life
  - What treatments or cures are available
  - The affordability of their care
- The type of mutation that causes the disorder (point, frameshift, nondisjunction etc.)
- The gene the mutation affects (it will have a name like CFTR or FVIII)
- The chromosome on which the gene is present (e.g. 8 or Y)
- The type of inheritance and what that means for passing it on to offspring: (recessive, dominant, sex-linked, autosomal etc.)
- (monosomy, trisomy, translocation, deletion, insertion if nondisjunction)
- Include a punnett square to explain this concept
- A sample pedigree of a family afflicted by this disorder, provide a karyotype instead if your disorder is caused by nondisjunction

Grading Rubric:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>25%</th>
<th>50%</th>
<th>100%</th>
<th>Pts</th>
<th>Points Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 4 of the questions are addressed</td>
<td>Poster addresses 5-8 of the questions</td>
<td>All 9 of the questions are addressed fully</td>
<td>20</td>
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<tr>
<td>Accuracy</td>
<td>75% or more of the statements are inaccurate</td>
<td>50% to 75% of the statements are accurate</td>
<td>75% or more of the statements are accurate</td>
<td>20</td>
<td></td>
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<tr>
<td>Creativity &amp; Effort</td>
<td>Presentation is sloppy and lacks creativity</td>
<td>Presentation is neat and shows some creativity</td>
<td>Presentation is neat and is very creative including color and pictures</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

Total /50