Genetics Speech

Name ________________________ Sci ____

**Project**: You will create a PowerPoint Presentation and give a 2-minute talk about your topic to the class.

<table>
<thead>
<tr>
<th>PowerPoint presentation:</th>
<th>Use font 40 or larger. Do not include more than 5 words on a slide. Show pictures and explain! Don’t read. Use additional slides to make additional points.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Effects/symptoms</strong>:</td>
<td>What does this disease do to the body?</td>
</tr>
<tr>
<td>2. <strong>Pictures</strong>:</td>
<td>Find a picture of the symptoms. Include pictures on each slide.</td>
</tr>
<tr>
<td>3. <strong>Punnetts and Pedigrees</strong>:</td>
<td>Include Punnett squares and pedigrees. (If applicable.)</td>
</tr>
<tr>
<td>4. <strong>Cause</strong>:</td>
<td>What causes your disorder? (Gene mutation? Non-disjunction?)</td>
</tr>
<tr>
<td>5. <strong>Transmission</strong>:</td>
<td>Autosomal, Sex-linked? Is your condition dominant or recessive? Or, does the condition result from non-disjunction? (Note that non-disjunction is different.)</td>
</tr>
<tr>
<td>6. <strong>Treatment</strong>:</td>
<td>What treatments are available?</td>
</tr>
<tr>
<td>7. <strong>Testing</strong>:</td>
<td>Can a genetics counselor predict this condition?</td>
</tr>
<tr>
<td>8. <strong>Fun Fact</strong>:</td>
<td>Share one or more interesting fact about this condition.</td>
</tr>
</tbody>
</table>

**Grading out of 20 points**

- 1 point - **PowerPoint presentation**
- 2 points - **Effects/symptoms**…
- 2 points – **Pictures on every slide**…
- 4 points - **Punnett Squares and Pedigrees** (If applicable.)
- 1 point - **Cause**: (Gene mutation? Non-disjunction?)
- 1 point - **Transmission**: (Autosomal, Sex-linked, Dominant, Recessive?) Chromosomal = different
- 1 point - **Treatment**: (If applicable.)
- 1 point – **Testing**: Can a genetics counselor predict this condition?
- 1 point – **Fun Fact**: Share one or more interesting fact about this condition.
- 6 points - **Presentation**: Talk to the audience. Refer to your pictures and explain. Don’t read. Have good eye contact. Speak audibly. Don’t say “Um”. Don’t gesticulate.

**Bonus Point for citing your sources!**

**Research citing**

**Genetic Diseases/Conditions/Syndromes**

1. Albinism
2. Achondroplasia (Dwarfism)
3. Baldness (Male- Pattern)
4. Bloom Syndrome
5. Blue People (Methemoglobinemia)
6. Color Blindness
7. Cry of the Cat (Cri-du-chat)
8. Cystic Fibrosis
9. Down Syndrome (Trisomy 21)
10. Hemophilia
11. Huntington's Disease (Huntington’s Chorea)
12. Klinefelter's Syndrome
13. Lipodystrophy
14. Marfan Syndrome
15. Nail-Patella Syndrome
16. Niemann–Pick Disease
17. Progeria
18. Sickle Cell Anemia
19. Polydactyly
20. Syndactyly
21. Turner Syndrome
22. Tay-Sachs
23. Williams Syndrome
24. Rett Syndrome
25. Edward Syndrome (Trisomy 18)
26. Lesch-Nyhan Syndrome
27. Jackson-Weiss Syndrome
28. Patau Syndrome (Trisomy 13)
29. Roberts Syndrome
30. Von Hippel-Lindau Syndrome
31. Potentially Disturbing:
Genetics Speech

Grading Rubric:

Name _________________________________, Topic: ______________________

**PowerPoint presentation:** Use font 40 or larger. Do not include more than 5 words on a slide. Show pictures and explain! Don’t read. Use additional slides to make additional points.

____ 1 point - **PowerPoint presentation**
____ 2 points - **Effects/symptoms…**
____ 2 points – **Pictures on every slide…**
____ 4 points - **Punnett Squares and Pedigrees** (If applicable.)
____ 1 point - **Cause:** (Gene mutation? Non-disjunction?)
____ 1 point - **Transmission:** (Autosomal, Sex-linked, Dominant, Recessive, Chromosomal?):
____ 1 point - **Treatment** (If applicable.)
____ 1 point – **Testing:** Can a genetics counselor predict this condition?
____ 1 point – **Fun Fact:** Share one or more interesting fact about this condition.
____ 6 points - **Presentation:** Talk to the audience. Refer to your pictures and explain. Don’t read. Have good eye contact. Speak audibly. Don’t say “Um”. Don’t gesticulate.

**Bonus Point for citing your sources!**

Your speech will be due: _________________________________

You must finish your project on your own time. Find a computer at X-block, A+A and/or after school.