**Genetic Conditions Project**

To further explore the inheritance of traits, you will be assigned a genetic condition to study, research, and present to the class. Your chosen condition will be presented to the class using iMovie. Research should be conducted outside the classroom, however class time may be available to create your presentation. The project presentation is worth 100 points. The following criteria must be met for this presentation :

**I. Choose one of the following conditions.**

Achondroplasia Cystic Fibrosis Klein Waardenburg Syndrome

Aicardi Syndrome Down’s Syndrome Marfan Syndrome

Albinism Muscular Dystrophy Neurofibromatosis

Alkaptonuria Edward’s Syndrome Patau Syndrome

Angelman Syndrome Fragile-X Syndrome Phenylketonuria

Ataxia Telangiectasia Galactosemia Polydactyly

Brachydactyly Hemophilia Prader-Willi Syndrome

Canavan Disease Huntington’s Disease Sickle-Cell Anemia

Charcot-Marie-Tooth Disease Hutchinson-Gilford Progeria Spina Bifida

Cleft Lip / Palate Hypophosphatemia Tay-Sachs Disease

Color Blindness Joubert Syndrome Thalassemia

Cri-du-Chat Syndrome Klinefelter’s Syndrome Turner’s Syndrome

**II. State information for each of the following :**

**1. Title** (5 Points)

- What is the title of your presentation?

**2. Symptoms** (12 Points)

- Identify 5 symptoms associated with the condition (How is the gene expressed?)

- Include a visual aid (picture, video, etc.)

**3. Occurrence** (12 Points)

- Identify how often does the disorder occurs in populations (and subpopulations)

- Include 5 population occurrences

- Include a visual aid (picture, video, etc.)

**4. Inheritance** (12 Points)

- Identify 5 facts about how the disorder is passed from generation to generation

- Include a Punnett Square or Karyotype (depends on which condition you are studying)

- Include a visual aid (picture, video, etc.)

**5. Treatment** (12 Points)

- Identify 5 measures taken to treat or control the condition

- Include a visual aid (picture, video, etc.)

**6. Facts** (12 Points)

- Identify 5 facts (number-based) or general information about the condition.

- Include a visual aid (picture, video, etc.)

**III. Outline** (15 Points)

: Put all information on a typed outline

: Project will not be graded until an outline is submitted

: Information on the outline will be information graded

**IV. Hints For Neatness / Organization** (10 Points)

: Storyboard a script and develop a theme (Talk Show, Dr. Show, Documentary, Hospital Drama, etc.)

: Create visuals for the video (sets, pictures, props, costumes, etc.)

: Create dialogue that incorporates factual information

: Clean up clip transitions

: Make sure information is well enunciated

**V. Presentation** (10 Points)

- Don’t read information off of papers during iMovie (REHEARSE!)

- This should not be a “spur-of-the-moment” recording

- Have fun with this project, but remember that real people have these conditions (Don’t offend anyone!!!!)