Genetic Mutation Project

Your assignment is to research DNA mutations. You will create a poster to explain a genetic disorder.

1) Begin with an introduction about:
   - DNA and the human genome
     (http://www.sciencedaily.com/articles/h/human_genome.htm)
   - What is a genetic mutation? (http://learn.genetics.utah.edu/content/variation/mutation/)
   - What causes genetic diseases?
     (http://www.scientemuseum.org.uk/WhoAmI/FindOutMore/Yourgenes/Howdogenesaffectyourhealth/Whatcausesdisease.aspx)

2) Then choose a genetic disorder from the list below, or if you know of another one just run it by me first.

   Here are some choices you can choose from.
   - Down's Syndrome  - Huntington's
   - Achondroplasia  - Cystic Fibrosis
   - Progeria  - Lou Gehrig's Disease (ALS)
   - Fragile X Syndrome  - Albinism
   - Autism/Asperger syndrome  - Hemophilia  - Marfan Syndrome

3) Then address the following in order:
   a. What is the name of the disorder?
   b. How is the disorder diagnosed? How does a person get the disorder? Is it a DNA mutation or is it inherited?
   c. Find out all of the main signs and symptoms of the disorder. What is it like to have this disorder?
   d. Include related pictures to help explain.
   e. What types of treatment (if any) are available for the disorder?
   f. Plus any other information that you feel is important/interesting for others to know about the genetic disorder.

4) Add a section about how mutations can be favorable!
   Describe how mutations can be beneficial
   Give examples of successful mutation
   Include pictures to show examples