

# Genetic Disease Detectives

Name \_\_\_\_\_

Date \_\_\_\_\_ Period \_\_\_\_\_

## Purpose:

Our purpose is to learn more about genetics through the study of genetic diseases. What kinds of genetic diseases are there? Are all genetic diseases fatal? We will answer these and other questions.

## Procedure:

Choose a genetic disease.

Research the disease using the library and internet (see you teacher for good web sites).

Create a poster or PowerPoint that gives information on your genetic disease.

Present your information to your science class.

Hear others present on their genetic diseases.

## Poster or PowerPoint Requirements:

1. Name of the disease
2. Other common names (if possible)
3. Description of the disease (what happens)
4. Describe how the disease is inherited (what chromosome)
5. Frequency of the disease in the population
6. Symptoms – what you can see on the outside/problems
7. Testing for the disease, treatment for the disease
8. Other interesting information/summary
9. Appropriate pictures, graphics or diagrams

On the back of the poster, you need a bibliography. For your research, use at least 3 sources, at least one book or encyclopedia and at least one website. If you cannot find any of these, please see me. For your bibliography, you need to look at page \_\_\_\_ in your agenda. If you use a website, you must know the author of the website (either a person or an organization). Remember a search engine like Google.com is not a source. List the website where you actually got your information and **your assignment will not be accepted without a bibliography!**

My Genetic Disease is: \_\_\_\_\_

The poster or PowerPoint is due (and I should be ready to present)

on: \_\_\_\_\_

## **Genetic Disease List:**

Cystic Fibrosis	Malignant Melanoma
Huntington's Chorea	Marfan Syndrome
Down Syndrome	Achondroplasia
Sickle Cell Anemia	Neurofibromatosis
Diabetes	Color Blindness
Hemophilia	Albinism
ADA Deficiency	Tay-Sach's Disease
Family Hypercholesterolemia	Amyotrophic Lateral Sclerosis
Myotonic Dystrophy	Cri-du-Chat
Duchenne Disease (muscular dystrophy/ DMD)	Patau Syndrome
ALD adrenoleukodystrophy	Familial Colon Cancer
Gaucher's Disease	PKU phenylketonuria
Retinoblastoma	

\* If you would like to study a disease that is not on this list, please ask your teacher first!

Genetic Disease Detectives Worksheet

Name:

1. Name of the disease

2. Other common names (if possible)

3. Description of the disease (what happens)

4. Describe how the disease is inherited (what chromosome)

5. Frequency of the disease in the population

6. Symptoms – what you can see on the outside/problems

7. Testing for the disease, treatment for the disease

8. Other interesting information/summary

9. Appropriate pictures, graphics or diagrams

10. Bibliography: Write the names of your 3 sources here.