Genetic Disorders Internet Worksheet

Genetic Disorders
1. What are genetic disorders caused by?
2. What are the 3 categories genetic disorders can be categorized into?
3. How many human disorders are caused by a mutation in a single gene?
4. Are single gene disorders easy to track through families? Why do you think?
5. Briefly explain chromosomal disorders?
6. What are complex disorders caused by? What are some examples?

DNA
1. What is a genome?
2. How many cells does a human body contain?
3. What is the relationship between DNA, chromosomes, and genes?
4. What is a mutation? What causes a mutation?
5. Are all mutations bad?

Genetic Disease Information
1. How many chromosomes are usually in each cell?
2. List several examples that may increase the risk of having a baby with a genetic abnormality.
3. What are some examples of single gene disorders?
4. What is an example of a chromosomal abnormality/disorder?

Inheritance Patterns
1. Name and explain the 4 ways faulty genes can be inherited.

2. Explain why X-linked recessive conditions occur much more frequently in males than in females.

3. If a father has an X-linked dominant condition ____% of his children will inherit it. If the mother does, _____% of children will.

Genes Quiz
1. Take the quiz. How many did you get correct?

2. Write 3 things you learned from taking the quiz.
Genetic Diseases & Disorders:
This is only a partial list! Look up at least 5 of these disorders and write a brief description about what they cause.

Huntington's Disease
Color Deficiency
Hemophilia
Sickle Cell Anemia
Marfans Syndrome
Tay-Sachs
Muscular Dystrophy
Albinism
Cystic Fibrosis
Parkinson's Disease
Phenylketonuria
Beta-Thalassemia
Hemochromatosis
Ellis van Creveld
Porphyria
Allopecia arreata
Achondroplasia
Downs Syndrome (Trisomy 21)
Edwards Syndrome (Trisomy 18)
Cri Du Chat
Fragile X Syndrome
Celiac
Progeria
Osteogenesis imperfecta