

## **TOPIC 5.6- Chromosomal Inheritance**

### **ESSENTIAL KNOWLEDGE**

- Segregation, independent assortment of chromosomes, and fertilization result in genetic variation in populations.
- The chromosomal basis of inheritance provides an understanding of the pattern of transmission of genes from parent to offspring.
- Certain human genetic disorders can be attributed to the inheritance of a single affected or mutated allele or specific chromosomal changes, such as nondisjunction.

<b>SICKLE CELL ANEMIA</b>
Summarize the disorder
How is it caused?
What are the current treatments?
Suggest future treatments or list current breakthroughs/research

TAY-SACHS DISEASE
Summarize the disorder
How is it caused?
What are the current treatments?
Suggest future treatments or list current breakthroughs/research

## TRISOMY 21/DOWN SYNDROME

Summarize the disorder

How is it caused?

## X-LINKED COLOR BLINDNESS

Summarize the disorder

How is it caused?

What are the current treatments?

Suggest future treatments or list current breakthroughs/research

HUNTINGTON'S DISEASE
Summarize the disorder
How is it caused?
What are the current treatments?
Suggest future treatments or list current breakthroughs/research

FIND ONE MORE AND COMPLETE
Summarize the disorder
How is it caused?
What are the current treatments?
Suggest future treatments or list current breakthroughs/research