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## 6.02 Heredity Guided Notes

### Objectives:

In the lesson, you will:

- explain that every organism requires a set of instructions that specifies its traits
- recognize that genetic information can be passed from one generation to the next
- differentiate between dominant and recessive traits
- describe genotype and phenotype
- describe how environmental factors and heredity affect personal health

### Cell Organelles Video:

Key Questions and Terms	Notes
What is the nucleus?	
What are mitochondria?	
What is the cell membrane?	

### Big Ideas:

Key Questions and Terms	Notes
What is DNA? Where is it found in a cell?	
What are traits?	
What are chromosomes?	
What are chromatids?	
What are genes?	
What are alleles?	
How do offspring resulting from sexual reproduction differ from offspring resulting from asexual reproduction?	
Explain dominant traits.	
Explain recessive traits.	

What is a genotype?	
What is a phenotype?	
How many alleles for each gene does a parent carry?	
How many alleles are passed to the offspring during sexual reproduction?	
What happens when dominant alleles are present?	
When is a recessive trait expressed?	
What letters represent dominant and recessive alleles?	
What phenotype is observed if a dominant allele is inherited?	
What phenotype is observed if one	

recessive allele is inherited?	
What phenotype is observed if two recessive alleles are inherited?	
What is sickle cell anemia and its impacts?	
What are the two types of diabetes and their impacts?	
What is acne and its impacts?	
How does personal hygiene impact your health?	
How do exercise and diet impact your health?	
How does sun protection impact your health?	

How does the  
environment impact  
your health?