

# Human Body Disorder Project (\*CA)

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## Background information

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- You need to research more information on sickle cell disease, specifically beta-thalassemia.
- Use the following websites:
  - <http://ghr.nlm.nih.gov/condition/sickle-cell-disease>
  - <http://www.babysfirsttest.org/newborn-screening/conditions/s-beta-thalassemia>

1. What are the characteristics of sickle cell disease?

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2. What is anemia?

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3. List symptoms of sickle cell anemia:

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4. Name the body parts (including organs) that are affected by sickle cell anemia

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System	Function	Organs Involved
Skeletal System		
Muscular System		
Nervous System		
Digestive System		
Respiratory System		
Circulatory System		

# Sickle cell disease project

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- In this project, you will be comparing two body systems. One of the body systems will be the **circulatory system** the other will be **assigned to you**.

Required Information- each part should have pictures too!	Notes
<b>Side 1:</b> Name/ Class Hour/ Title	
<b>Side 2:</b> Briefly <b>describe the function of the circulatory system</b> and the organs involved in the system (color code them)	
<b>Side 3:</b> Briefly <b>describe the function of the other system you were assigned</b> and the organs involved in the system (color code them)	
<b>Side 4:</b> List the <b>signs and symptoms</b> of sickle cell anemia.	
<b>Side 5:</b> Explain how the shape of sickle cell can cause <b>blood clots</b> .	
<b>Side 6:</b> Show <b>images</b> of normal cells vs. sickle cells. <b>(LABEL THEM!)</b>	

<b>Side 7:</b> Define <b>homeostasis</b>	
<b>Side 8:</b> Explain how the circulatory system maintains homeostasis	
<b>Side 9:</b> Explain how the other system you were assigned maintains homeostasis	
<b>Side 10:</b> Provide evidence of how these two systems <b>work together</b> to <b>maintain homeostasis</b> .	
<b>Side 11:</b> <b>Compare and contrast</b> how the system you were assigned functions with normal cells <u>compared</u> to when the person has sickle cell anemia.	
<b>Side 12:</b> Describe how <b>specific organs</b> in the system you were assigned are affected by sickle cell.	