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## KEY Allacad Amend Wild Type Wild Type Promise

## Part One

- 1. Go to the following link: http://www.saburchill.com/IBbiology/chapters03/006.html
  - 1. Why do scientists use pedigree charts?
  - 2. Draw the symbol that represents a male.
  - 3. Draw the symbol that represents a female.
  - 4. What does a line in between two individuals represent?
  - 5. How is an individual that is affected by the trait shown?
  - 6. Describe how a pedigree chart differentiates between parents and offspring.
  - 7. What is a generation? How many generations are depicted in the pedigree at the bottom of the page?
  - 8. Look at the top pedigree. How many children does that couple have? What are the sexes of the children?
  - 9. Look at the bottom pedigree. How many children does the original couple have? Are any of these children affected individuals? Explain.
  - 10. In the bottom pedigree, in the fourth generation, list the sex of each child from oldest to youngest.

## Part Two

1. Draw a pedigree chart for the following family. Charlie and Renee are grandparents. They have 3 children, Jessica, Crystal, and Gina. Jessica is married to Gale and they have a daughter named Rue. Crystal is married to John and they have 3 children, Alice, Mark, and lan. Gina is divorced and has 2 daughters, Kate and Rose. Please refer back to the two links if you are not sure about how to depict this information.

	the following questions using the following distribution of the following distribution are followed by the following distribution of the following distribution of the following distribution of the following distributions using the following distributions are successful to the following distributions are successful to the following distributions are successful to the following distribution distribution distributions are successful to the following distribution di	ng the next website: nd go to "How is it inherited?"	
1. F	How does a boy get hemopl	hilia?	
2. H	How does a girl become a c	earrier?	
		the male does not have hemophilia, drassible outcome (phenotype and percent	
		Phenotypes and percentages:	
pedigree ch	hart from Part two of this les	that you learned about Hemophilia to c sson. Indicate that Charlie, Gina, Ian, a that represent them in the Pedigree Cl	ind John have
•	in a sentence or two how hective allele for hemophilia a	nemophilia is inherited. Describe which and explain how you know.	parent gave lan
		from generation to generation. Include stal and John, as well as his grandpar	

and Renee.