

# Watson & Crick Genetic Specialists



## Genetic Counselors Report

Genetic Counselor Name(s): \_\_\_\_\_  
\_\_\_\_\_

### Task 1: Research

<b>Genetic Disorder</b>	<b>Notes</b>	
Achondroplasia	Overall Information	
	Inheritance Pattern	Dominant      OR      Recessive
	Symbols	Dominant Allele: _____      Recessive Allele: _____
Cystic Fibrosis	Overall Information	
	Inheritance Pattern	Dominant      OR      Recessive
	Symbols	Dominant Allele: _____      Recessive Allele: _____
Huntington's Disease	Overall Information	
	Inheritance Pattern	Dominant      OR      Recessive
	Symbols	Dominant Allele: _____      Recessive Allele: _____

Polydactyly	Overall Information	
	Inheritance Pattern	Dominant OR Recessive
	Symbols	Dominant Allele: _____ Recessive Allele: _____
Sickle Cell Disease	Overall Information	
	Inheritance Pattern	Dominant OR Recessive
	Symbols	Dominant Allele: _____ Recessive Allele: _____
Tay-Sachs Disease	Overall Information	
	Inheritance Pattern	Dominant OR Recessive
	Symbols	Dominant Allele: _____ Recessive Allele: _____
<b>Overall Notes:</b>		
Vocabulary		
Punnett Squares		
Probability Determination		

Task 2: Genetic Counselor

Case Study # \_\_\_\_\_

<i>Genetic Disorder</i>	<i>Mother Genotype</i>	<i>Father Genotype</i>
Achondroplasia		
Cystic Fibrosis		
Huntington's Disease		
Polydactyly		
Sickle Cell Disease		
Tay-Sachs Disease		

Punnett Squares:

Achondroplasia


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Cystic Fibrosis


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Huntington's Disease


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Polydactyly


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Sickle Cell Disease


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Tay-Sachs Disease


Phenotypic Ratio:

- \_\_\_\_\_ = normal
- \_\_\_\_\_ = carrier
- \_\_\_\_\_ = affected

Which disorders do the offspring have a chance of having?

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Task 3: Educational Materials

Use the following chart to collect additional information to be included in your educational materials.

<u>Genetic Disorder</u>	<u>Notes</u>	
	Summary of Disorder	
	Symptoms	
	Cause	
	Inheritance	
	Treatments	
	Prognosis	

<i>Genetic Disorder</i>	<i>Notes</i>	
	Summary of Disorder	
	Symptoms	
	Cause	
	Inheritance	
	Treatments	
	Prognosis	

Additional Space for Additional Notes: