Name:	Date:	Period:
~: —	* Superhero Genetics *~	
You will be discovering the genetic make	eup and powers of a baby with Superhero pare	nts!
next to Mother and Father. 2. As you move through the station Punnett squares below to find th 3. Roll the die. If you roll a 5 or a 6,	ds, draw a male and female superhero and writh as, use the cards provided to find your parent gone possible genes for the offspring. The roll again. Whichever number you roll first from the key for the genotypes to find the phenoton pes to your trait list on page 3.	enotypes. Work the
Superhero Mom:	Superhero Dad:	
Station One: Dominant Traits		
Invisibility: (mom)X	(dad) Intelligence: (mom)	X(dad)
Number on the die: Trait of offspring:	Number on the die: Trait of offspring:	
Station Two: Co-Dominant Traits		
Shape Shifting: (mom)X	(dad) Strength: (mom)	X(dad)
Number on the die: Trait of offspring:	Number on the die: Trait of offspring:	
. 5		

Station Three: Incomplete	<u>Dominant</u>	<u>Traits</u>			
Extreme Fighting: (mom)	X	(dad)	Flight: (mom)	X	(dad)
Number on the die: Trait of offspring:			Number on the die: _ Trait of offspring:		
Station Four: Gender					
Sex chromosomes: (mom)	X	(dad)			
			die: ette that is for your baby's	s gender. ☺	
Station Five: Multiple Allel	es		Station Six: Se	ex Linked	
Telekinetic/Telepathic: (mom)_	X	(dad)	Regeneration: (mom)	x	(dad
Number on the die:			Number on the die:		
Trait of offspring:			Trait of offspring:		

Fill in the table below:

Trait	Genotype	Phenotype
Invisibility		
Intelligence		
Shape shifting		
Strength		
Extreme Fighting		
Flight		
Telekinetic/Telepathic		
Regeneration		
Gender		

When you have finished all six stations, answer the questions below.

Genetics and Punnett Square Questions:

1.	What is the difference between phenotype & genotype?		
2.	Explain the difference between dominant & recessive genes.		
3.	Which of your baby's traits are heterozygous?		
4.	Which of your baby's traits are homozygous?		
5.	How is it possible for an offspring to show a trait that neither parent showed?		
6.	Explain why having a boy or a girl is always a 50/50 chance.		
7.	Explain the difference between codominance and incomplete dominance.		

Use the superhero silhouette you picked up at Station 4 and draw your new superhero as an adult! Be sure to give your superhero a name!