Genetics Review Stations				
Station 1: Genotype Word Sort	Teacher Initials			
<u>STEP ONE</u> : Arrange the definition and example strips next to the way.				
• <u>STEP TWO</u> : Once you have the words in the correct order, use ther following HSA questions. Don't forget to use RUBIES!	n to answer the			
 Which of these combinations results in the expression of a a. Two dominant alleles (Ex) b. A dominant sex-linked allele and a Y chromosome (Ex c. Two recessive alleles (Ex) d. A dominant allele and a recessive trait (Ex) Which of these is an example of a heterozygous genotype? a. RR b. Wrinkled c. Rr d. Smooth Smooth peas are dominant to wrinkled peas. Which of the genotypes will result in a wrinkled pea? a. RR b. Rr c. rr d. rR)			
 Station 2: Punnett Squares DIRECTIONS: Choose 2 Punnett Squares situations. Read the scenario and fill Squares below based on the information you collect. Once you have completed your Punnett Squares, fill in the gender of the post of				
# Bb: # bb) and phenotypic ratio (# dominant: # recessive). Dominant allele () = Dominant allele Recessive allele () = Recessive allele	() = () =			
	:::			

Name:_______Period:______ Date:_____

Name:	Period:	Date:
Station 3: Ch	romosome Counting Grab Bag	
DIRECTION	S:	
1. Choo	ose 5 chromosome questions from the basket a bers below.	nd write down the question
2. Write	e down the key word from the question and ar	nswer the question.
#	Key word (s) from question: How many chromosomes?	
#	Key word (s) from question: How many chromosomes?	
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#	Key word (s) from question: How many chromosomes?	
Station 4: Se	x-Linked Traits	
	ONS: Read the information about color-blindrictions below.	ness at your table, then answer
1. XBXb x XBY	· ·	
	percentage of the <u>male</u> children are lind?	
	percentage of the <u>female</u> children are blind?	
	hted woman (whose father was colorblind) orblind man X	
	is the probability that they will have a son s colorblind?	
	is the probability that they will have a blind daughter ?	

Name:		Period:	Date:	
Station 5: Analy	yzing Pedigrees			
DIRECTION	S: Use the pedigrees at yo	our table to answer t	the questions below	V.
	t we need to analyze if the ESSIVE trait?	e pedigrees are shov	ving a DOMINANT	or
	a. Pedigree A:		_ How do you know	<i>N</i> ?
1	o. Pedigree B:		_ How do you know	w?
(c. Pedigree C:		_ How do you knov	v?
	t, are the pedigrees show a. Pedigree A:			
1	o. Pedigree B:		_ How do you know	_N ?
(c. Pedigree C:		_ How do you knov	v?
	ose a pedigree A, B, or C (a. How many individuals			ons below:
1	o. Name one individual v	vho is affected. (Ex. 1	III.8)	
C	c. What is the genotype or recessive? Is it autoso			inant or
Station 6: Gene	tics Word Walk			
 Look ins describi Move to Keep fol 	ord to start. Write down side for the clue/definition ng. the next word and write lowing the words and deforiginal word with 20 wo	n of your NEXT wore it down next to num finitions to the next	d. Figure out what aber 2.	word it is
1.	8.	15.		
2.	9.	16.		
3.	10.	17.		
4.	11.	18.		
5.	12.	19.		Teacher Initials:
6.	13.	20.		
7.	14.			

Name:	Period:	Date:	
Station 7: Modeling Protein Sy	nthesis		
DIRECTIONS:			
1. Choose a DNA strip. Write	the bases below:		
2. TRANSCRIBE: Match up the	e mRNA bases to the bol o	d side of your DN	NA strip.
3. TRANSLATE: Move your m molecules.	RNA to the ribosome and	d match up your t	tRNA
4. What is your amino acid se	quence? Write it below:		Teacher Initial

Station 8: Create Pedigrees

DIRECTIONS:

- 1. Choose a pedigree. Write the letter of your pedigree: _____
- 2. Read the family clues in the first box. Draw the family pedigree below. Remember squares represent males and circles represent females.
- 3. Next, read the clues about the trait in the second box. Color in the individuals who show the recessive trait.
- 4. Fill in all of the genotypes you know!

Teacher Initials:	