## Chapter 6: Dihybrid Cross Worksheet

In rabbits, gray hair is dominant to white hair. Also in rabbits, black eyes are dominant to red eyes. These letters represent the genotypes of the rabbits:

GG = gray hair	BB = black eyes
Gg = gray hair	Bb = black eyes
gg = white hair	bb = red eyes

1. What are the phenotypes (descriptions) of rabbits that have the following genotypes?

Ggbb \_\_\_\_\_ ggBB \_\_\_\_\_

ggbb \_\_\_\_\_ GgBb

2. A male rabbit with the genotype GGbb is crossed with a female rabbit with the genotype ggBb the square is set up below. Fill it out and determine the phenotypes and proportions in the offspring.



How many out of 16 have gray fur and black eyes? \_\_\_\_\_

How many out of 16 have gray fur and red eyes? \_\_\_\_\_

How many out of 16 have white fur and black eyes?

How many out of 16 have white fur and red eyes

3. A male rabbit with the genotype GgBb is crossed with a female rabbit with the genotype GgBb The square is set up below. Fill it out and determine the phenotypes and proportions of offspring

	GB	Gb	gB	gb
GB				

How many out of 16 have gray fur and black eyes? \_\_\_\_\_\_

How many out of 16 have gray fur and red eyes? \_\_\_\_\_

How many out of 16 have white fur and black eyes?

How many out of 16 have white fur and red eyes? \_\_\_\_\_

5. An aquatic arthropo dominant over smooth pesticides (nn). Make a	n (bb). In the sam	ne organism Non-re	esistance to pesticides	(N) is dominant over	er resistance to
Genotype		P	henotype		
ВВ					
Bb					
Bb					
NN					
Nn					
nn					
6. A Cyclops that is res traits. Show the genot			antennae is crossed v	with one that is het	erozygous for both
7. Set up a punnett squ	uare for the cros	S.			
9. What are the pheno	typic ratios of th	e offspring?			

4. Show the cross between a ggBb and a GGBb. You'll have to set this one up yourself:

Punnett Square: