

Gene Monsters Instructions

Monster Parents:

1. Using the Gene Monster Traits chart fill in the phenotypes for the mom and then the dad.
2. Draw a picture of each parent. Make sure the colors are correct.

Monster Babies:

1. You will be flipping a coin to determine the trait from the parent.
2. If you flip a head, you will write a dominant trait.
3. If you flip a tail, you will write a recessive trait.
4. Use the Gene Monster Traits chart to determine the characteristics for each baby.
5. Draw a picture of each baby and color them.


























Gene Monster Breeding Chart

Name _____

Date _____

Period _____

MOM GENE MONSTER		DAD GENE MONSTER		BABY	
<i>Genotype</i>	<i>Phenotype</i>	<i>Genotype</i>	<i>Phenotype</i>	<i>Genotype</i>	<i>Phenotype</i>
1. Aa 		1.Aa 			
2. BB		2. bb			
3. Cc 		3. cc			
4. Dd 		4. Dd 			
5. ee		5. Ee 			
6. Ff 		6. ff			
7. Gg 		7. Gg 			
8. Hh 		8. Hh 			
9. Ll 		9. ll			
10. Mm 		10. Mm 			
11. oo		11. Oo 			
12. PP		12. pp			
13. rr		13. Rr 			
14. Ss 		14. Ss 			
15. Tt 		15. Tt 			
16. Uu 		16. uu			
17. Yy 		17. Yy 			

	Possible Genotype	Phenotype Dominance
1.	AA, Aa, aa	4 Arms are dominant to 2 arms
2.	BB, Bb, bb	Fanged teeth are dominant to square teeth
3.	CC, Cc, cc	Curly hair is dominant to straight hair
4.	DD, Dd, dd	Head and Ears are red is dominant to green
5.	EE, Ee, ee	3 Eyes are dominant to 2 Eyes
6.	FF, Ff, ff	3 Fingers are dominant to 2 fingers
7.	GG, Gg, gg	Green body spot is dominant to <u>no</u> body spot
8.	HH, Hh, hh	Hair on top of head is dominant to bald
9.	LL, Ll, ll	Lobed ears are dominant to ears not lobed
10.	MM, Mm, mm	Orange eyes are dominant to brown eyes
11.	OO, Oo, oo	Orange hair is dominant to purple hair
12.	PP, Pp, pp	Peanut shaped is dominant to pear shaped
13.	RR, Rr, rr	Red body is dominant over black body
14.	SS, Ss, ss	Short arms are dominant to long arms.
15.	TT, Tt, tt	Triangular head is dominant to club shaped
16.	UU, Uu, uu	Upper teeth are dominant to lower teeth
17.	YY, Yy, yy	Yellow arms are dominant to green arms

Gene Monster Questions

1. List 3 ways the baby is similar to the parents.

Mom

- a.
- b.
- c.

Dad

- a.
- b.
- c.

2. List 3 ways the baby is different from the parents.

Mom

- a.
- b.
- c.

Dad

- a.
- b.
- c.

3. How is this activity similar to your family? (List specific similarities and differences)

Similarities

- a.
- b.
- c.

Differences

- a.
- b.
- c.

4. Where did the kids' genes come from?

5. How many genes does the dad have?

6. What are the alleles for the monsters teeth?

7. What is the dominant trait for the monsters' body type? (give me alleles & phenotype)

8. What is the recessive trait for the monsters' ear color? (phenotype)

9. What is the genotype for your monsters eye color?

10. What is the phenotype for your baby's hair color?