

Paper Pet Project

Learner Outcome: Students will be able to construct an imaginary pet model based on chosen genes from two different parents to demonstrate varied traits in an offspring (Standard MS-LS3-2).

Directions:

1. Choose and circle the traits that you would like for your imaginary pet from the table below. The dominant alleles for the traits are: B (blue skin), C (curly hair), S (square eyes), T (triangular nose), and P (pointed teeth). Use XX for a girl gender and XY for a boy gender.

Color	blue	yellow
Hair	curly	no curl
Eyes	square	round
Nose	triangular	oval
Teeth	pointed	square
Gender	boy	girl

2. Fill in the information about your pet on the chart on the next page. You will cut this out and glue to the back of your pet at the end of your project.
3. Cut out the outline of the paper pet given to you. Trace the paper pet design onto either blue or yellow construction paper and cut it out.
4. Decorate your paper pet. You may choose to draw the traits or use the materials available to help make your paper pet.
5. Make sure the chart that is filled out matches the traits. Proceed to cut out the chart and glue to the back of your paper pet creation

Assign. #

Pet's Name _____

Gender _____

Phenotype

Genotype

Color _____

Hair _____

Eyes _____

Nose _____

Teeth _____

Grading Rubric for Project

Chart of Phenotypes/Genotypes	1	2	3	4	5	6
Pet Traits Match Chart	1	2	3	4	5	6
Creativity/Neatness of Pet	1	2	3			
Total				/15		

Pet Project Extension

Directions: Find a classmate that is finished with their pet project. If the “pets” had offspring (children), try to figure out the probability of traits based on the genes of both of your pets. Gender will not be taken into consideration for this particular activity.

Skin Color

Pet 1 Genes _____

Pet 2 Genes _____

What are the chances the offspring will have blue skin? What are the chances the offspring will have yellow skin?

Hair

Pet 1 Genes _____

Pet 2 Genes _____

What are chances the offspring will have curly hair? What are the chances the offspring will have straight hair?

Eyes

Pet 1 Genes _____

Pet 2 Genes _____

What are the chances the offspring will have square eyes? What are the chances the offspring will have round eyes?

Nose

Pet 1 Genes _____

Pet 2 Genes _____

What are the chances the offspring will have a triangle noses? What are the chances the offspring will have an oval nose?

Teeth

Pet 1 Genes _____

Pet 2 Genes _____

What are the chances the offspring will have square teeth? What are the chances the pet child will have pointed teeth?