

What you do:

In this activity, both parents are hybrid (heterozygous). Give each of your students two coins to flip (one represents mom, the other dad). Heads = dominant / Tails = recessive. Students fill in the genetic chart to discover what their alien baby will look like. Once their chart is filled, they look at the genotype and phenotype that represents each trait and construct their baby alien out of construction paper. Each student starts out with a circle. They choose the colors and the length of each component (arms, legs, fingers, toes). Once their alien is constructed, they draw their baby alien with its Mommy and Daddy by looking at their genetic chart.

ALIEN GENETICS LAB: BABY ALIEN CREATION

TRAITS	MOM GENOTYPE	DAD GENOTYPE	GENOTYPE	PHENOTYPE
EYES	Ee	Ee	ee	1 large
NOSTRILS	Nn	Nn	Nn	Not visible
EARS (visible)	Vv	Vv	Vv	Not visible
TEETH	Tt	Tt	Tt	None
ARMS	Aa	Aa	Aa	2 skinny
FINGERS	Ff	Ff	ff	3 long
LEGS	Ll	Ll	Ll	2 long
TOES (wiggle)	Ww	Ww	Ww	3 long
SKIN COLOR	Ss	Ss	Ss	Solid
HEAD	Hh	Hh	Hh	Bald

Eyes
E = 2 large
e = 1 large

Nostrils
N = not visible
n = visible

Ears
P = not visible
p = visible

Teeth
T = none
t = sharp

Arms
A = 2 skinny
a = 4 skinny

Fingers
F = 5 long
f = 3 long

Legs
L = 2 long
l = 4 long

Toes
W = 3 long
w = 2 long

Skin Color
S = solid
s = dotted

Head
H = bald
h = 3 hairs

