

Investigating Inherited Human Traits:

Laboratory Exercise

Heredity is defined as the passing on of traits, or characteristics from parent to offspring. The units of heredity are termed genes. Genes are located on chromosomes and carry the genetic material in all living organisms. The combinations of genes for each trait occur by chance. When one gene is stronger than the other gene, the trait of the weaker gene is hidden. The stronger gene is dominant, and the gene that is hidden is recessive. If both genes in a pair are the same, the trait is said to be homozygous. If the genes are not similar, the trait is said to be heterozygous, or a hybrid. In certain cases, genes are neither dominant nor recessive, and the result is a blending of traits (something you will learn about later).

The genetic makeup of an individual is its genotype. The observable physical characteristics of an individual that are the result of its genotype is known as its phenotype.

In this activity, you and a partner will observe how the results of different gene combinations produce certain traits.

PROCEDURE:

- 1) Determine which partner will toss for the female and which will toss for the male. *Remember that there are only two genes per trait!*
- 2) Have one partner flip a coin to determine the sex of the offspring. If the coin lands heads up the offspring is female; if the coin lands tails up, the offspring will be male. Record the sex of your offspring on your worksheet.
- 3) For each coin toss you will now make HEADS representative of the DOMINANT gene (with an allele with a CAPITAL letter), and TAILS is the RECESSIVE gene (with a lowercase letter). You and your partner should now flip each of your coins at the same time. *The coins should be flipped only once for each trait!*
- 4) Continue to flip the coins for each trait listed on the provided "Traits Table." After each flip, record the trait of your offspring on your worksheet.
- 5) Using your recorded traits, draw the facial features for your offspring in your Biology notebook.

TRAIT TABLE		
TRAIT	DOMINANT	RECESSIVE
Face Shape (F; f)	Oval	Square
Earlobe Attachment (R; r)	Free Ear Lobes	Attached Ear Lobes
Chin (C; c)	Cleft Chin	Smooth Chin
Forehead Hairline (H; h)	Widow's Peak	No Widow's Peak
Cheeks/Smile (S; s)	Dimples	No Dimples
Nose Shape (N; n)	Roman Nose	No Bump on Bridge
Eye Shape (E; e)	Almond	Round
Freckles (K; k)	Freckles	No Freckles

Inheritance Of Human Traits Answers

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