

Toothpick Fish

Purpose

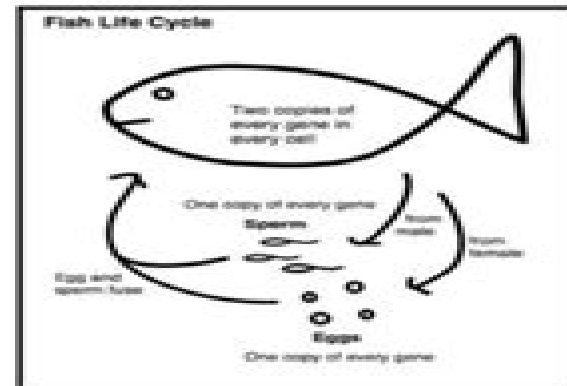
We are going to experiment with genes and environment for a population of "toothpick" fish. You will learn about the relationships between many different aspects of fish life: genes, traits, variation, survival, and reproduction. The activity here is a simulation, but it models the way fish and other organisms live in nature.

Materials (for each pair)

- 1 "gene pool" container (e.g. a petri dish)
- 8 green toothpicks
- 8 red toothpicks
- 8 yellow toothpicks

Introduction

The colored toothpicks represent three different forms of a gene (green, red, and yellow) that controls one fish trait: skin color. The table below tells you which forms (alleles) of the gene are dominant, which are recessive,



The green gene (G) is...	Dominant to all other color genes
The red gene (R) is ...	Recessive to green, incomplete dominance with yellow*
The yellow gene (Y) is...	Recessive to green, incomplete dominance with red*

* Combining red and yellow genes results in a fish with orange skin color.

REMEMBER: EACH TOOTHPICK REPRESENTS A GENE, NOT A FISH.

Directions:

- Count your toothpicks to make sure you have 8 of each color for a total of 24 toothpicks.
- Figure out which gene combinations give rise to which fish colors and fill in the answers on the table on the next page.

Fish Color (phenotype)	Gene Combinations (Genotype)
Green	
Red	
Orange	
Yellow	

Based on the genotypes that you identified in Step 2, answer the questions below. Use Punnett squares to determine your answers.

- Can two red fish mate and have green offspring? ____ What is the only possible offspring for two red fish? ____ What is the only possible color for offspring of two yellow fish? ____ Explain your answers.

Toothpick Fish Experiment Answers

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Toothpick Fish Experiment Answers:

Adopting the Track of Term: An Emotional Symphony within **Toothpick Fish Experiment Answers**

In a global consumed by monitors and the ceaseless chatter of immediate transmission, the melodic elegance and mental symphony developed by the written term often fade in to the background, eclipsed by the constant sound and distractions that permeate our lives. But, nestled within the pages of **Toothpick Fish Experiment Answers** a stunning fictional value overflowing with organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that charming masterpiece conducts visitors on a psychological trip, skillfully unraveling the hidden songs and profound affect resonating within each cautiously crafted phrase. Within the depths of this emotional examination, we can explore the book's central harmonies, analyze their enthralling writing model, and submit ourselves to the profound resonance that echoes in the depths of readers' souls.

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