

Toothpick Fish

Purpose

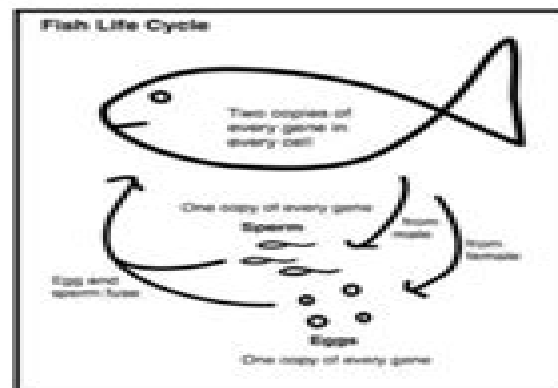
We are going to experiment with genes and environment for a population of "toothpick" fish. You will learn about the relationships between many different aspects of fish life: genes, traits, variation, survival, and reproduction. The activity here is a simulation, but it models the way fish and other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

- a. 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

ML Morrison



Toothpick Fish Experiment Answers:

Toothpick Fish Experiment Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Toothpick Fish Experiment Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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