

Toothpick Fish

Purpose

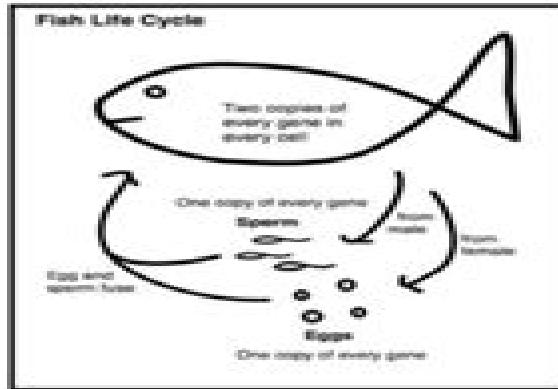
We are going to experiment with genes and environment for a population of "toothpick" fish. You will learn about the relationships between many different aspects of fish life: genes, traits, variation, survival, and reproduction. The activity here is a simulation, but it models the way fish and other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

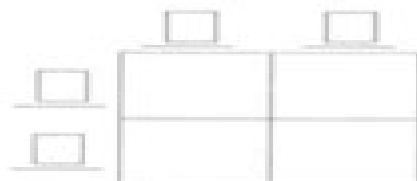
Directions:

1. Count your toothpicks to make sure you have 8 of each color for a total of 24 toothpicks.
2. 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

EW Minium

Toothpick Fish Experiment Answers:

Fish Tank Physics Projects Madeline P. Goodstein, 2002 Introduces students to science projects that transform an ordinary fish tank into an easy to use tool for carrying out science experiments and science fair projects Includes the physics of refraction and reflection surface tension cohesion pressure and sinking [101 Cool Science Experiments](#), 2005 Science experiments you can do in your own kitchen using everyday things like vinegar string eggs and paper [Good Health](#), 1929

The Glass Container, 1924 ***The American Food Journal***, 1912 ***Normal Instructor and Teachers World***, 1928

Pop, Sizzle, Boom! Amy Oyler, 2017-06-13 Contains all sorts of science projects such as making slime with Elmer's glue color changing milk a Mentos diet coke geyser and even a PVC rocket launcher [Home Sweet Home Invasion](#) Liam Gibbs, 2015-08-25 Two soldiers one mindless robot zero weapons 130 decibels Soldiers Power Plant and Franchise aren't the first choices for a stealth mission Brash and mischievous at least they've got heart But stealth becomes desperate survival when they crash land on enemy ground With a hunting party dogging them their every move is a frenzied act to keep one step ahead But that's impossible when your robotic pilot speaks in car alarms Can Power Plant and Franchise outwit the enemy long enough for rescue when rescue is half a galaxy away Did Power Plant even remember to brush his teeth this morning It's a race against death with a robot that has no indoor voice [American Miller](#), 1923 ***The Aquarium***, 1935

The Christian Union Henry Ward Beecher, 1890 ***Minicam***, 1937 ***Forest and Stream***, 1891 [Neither use nor ornament](#) Tracey Potts, 2024-06-18 Neither use nor ornament is a book about personal productivity narrated from the perspective of its obstacles clutter and procrastination It offers a challenge to the self help promise of a clutter free life lived in a permanent state of efficiency and flow The book reveals how contemporary projections of the good productive life rely on images of failure Riffing on the aphorism less is more a dominant refrain in present day productivity advice it tells stories about streamlining efficiency and tidiness over a time period of around 100 years By focusing on the shadows of productivity advice Neither use nor ornament seeks to unravel the moral narratives that hold individuals to account for their inefficiencies and muddles [A Dictionary of the English Language](#) Samuel Johnson, 1784 [Scientific American](#), 1868 ***The Feathered World***, 1923 ***The Medical times***, 1845 ***Comfort***, 1922 [English Mechanic and World of Science](#), 1886

Toothpick Fish Experiment Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Toothpick Fish Experiment Answers**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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