

Toothpick Fish

Purpose

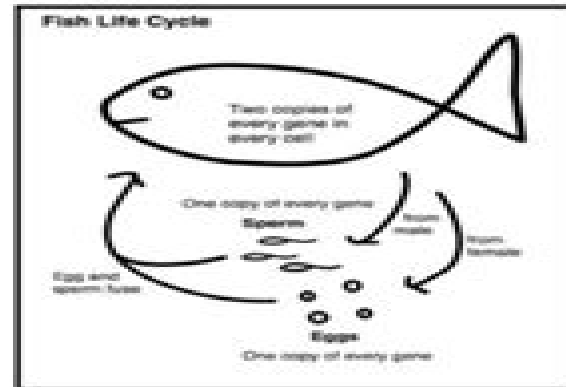
We are going to experiment with genes and environment for a population of "toothpick" fish. You will learn about the relationships between many different aspects of fish life: genes, traits, variation, survival, and reproduction. The activity here is a simulation, but it models the way fish and other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

Amy Oyler



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 **The Aquarium** , 1935 **The Christian Union** Henry Ward Beecher, 1890 *Pop, Sizzle, Boom!* Amy Oyler, 2017-06-13 A Parents Choice Award Recommended Book The most clever fun and exciting book of kids science experiments ever This book is perfect for kids who like the excitement of exploding things boiling things and generally making a mess while learning about science Get ready for amazing projects like Slime Party Make slime with Elmer's Glue Color changing milk Mentos Diet Coke Geyser PVC Rocket Launcher Puffy Paint in the Microwave Solar Oven S'mores Homemade Light Saber A Dictionary of the English Language Samuel Johnson, 1784 Curriculum Foundation Series , 1965 Journal of Proceedings of the ... Annual Convention and International Pure Food Congress ... Association of Dairy, Food, and Drug Officials of the United States, 1910 **Real Japanese Cooking** Makiko Itoh, 2025-08-05 Maki Itoh has succeeded in creating a treasure trove in her exploration of Japanese recipes and culinary traditions Perfect for the Japanese food loving home cook Elise Bauer Founder SimplyRecipes.com The first comprehensive cookbook to fully cover all aspects of Japanese cuisine with 600 recipes This book has been a lifetime in the making Bicultural author Makiko Itoh was born in Tokyo and grew up in New York where her mother ran the leading Japanese restaurant for two decades She has since developed a career as a successful bilingual food writer and translator uniquely positioned to explain the cuisine to non Japanese Her book answers all the questions foreigners typically have about one of the world's greatest cuisines including Why is Japanese food so unique A full overview from umami to seasonality to aesthetics Essential ingredients like miso mirin dashi sake and soy how and why they are used How to design a Japanese meal from tableware to equipment to etiquette Which recipes are right for you The 600 recipes in this book cover everything from bento boxes to nimono simmered dishes to izakaya sushi and hotpots But which ones should you try Itoh's mission is to demystify Japanese cuisine for non Japanese Her book contains 400 beautiful color photos with clearly presented recipes interspersed with fascinating essays and sidebars explaining all aspects of Japan's unique food culture A must read book for every Japanese food lover Minicam , 1937 **The Examiner** , 1846 *The Medical times* , 1845 *Scientific American* , 1868 Outlook Alfred Emanuel Smith, Francis Walton, 1890 *The New York Times Magazine* , 1974 **English Mechanic and World of Science** , 1886 *English Mechanic and Mirror of Science* , 1886 Good Health , 1929 Journal Institution of Electrical Engineers, 1970 **The Christian Union** , 1890

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