

## Science4you 80004584

# Science4you Gummy Sweets Lab Instruction Manual

Model: 80004584

Brand: Science4you

## INTRODUCTION

Welcome to the Science4you Gummy Sweets Lab! This kit allows users to explore the science behind making gummy candies. You will create various shapes and flavors of gummies while engaging in educational experiments. This manual provides essential information for setting up, operating, and maintaining your Gummy Sweets Lab.



Image: The Science4you Gummy Sweets Lab kit box, featuring children making gummies and highlighting key features like 11 experiments and 19 unique shapes.

## SAFETY INFORMATION

Please read all instructions before use. Adult supervision is recommended for all experiments involving heating or sharp objects. This product is intended for children aged 8 years and up. Keep all ingredients and tools out of reach of younger children and pets.

- Always wash hands thoroughly before and after handling ingredients.
- Do not consume any ingredients directly from the packets.
- Use only food-grade ingredients as specified in the online educational book.
- Exercise caution when using a microwave or any heating appliance.
- Dispose of waste materials responsibly.

## WHAT'S INCLUDED

The Science4you Gummy Sweets Lab kit contains the following components:

- Online educational book (access details provided in the kit)
- Decorative stickers
- Test tubes with lid
- Measuring cup
- Lab bench
- Pipette dropper
- Multi-shape mold
- Flavored gelatin (strawberry or tutti-frutti)
- Neutral gelatin

**Note:** Additional household materials such as water, a plate, a microwave-safe plastic container, a spoon, a mixer, and a refrigerator are required and not included in the kit.



Image: A flat lay of the kit's contents, including molds, packets of gelatin, test tubes, a measuring cup, and the lab bench, alongside a tablet displaying the online educational book.

## SETUP

1. **Unpack Components:** Carefully remove all items from the kit box.
2. **Review Online Educational Book:** Access the online educational book using the provided instructions. This book contains detailed step-by-step guides for each experiment and recipe.
3. **Prepare Work Area:** Choose a clean, flat, and stable surface for your experiments. Ensure it is easy to clean in case of spills.
4. **Gather Additional Materials:** Collect all necessary household items as listed in the "What's Included" section (water, plate, microwave-safe container, spoon, mixer, refrigerator).
5. **Assemble Lab Bench:** Place the lab bench on your prepared work surface. This will hold your test tubes and other small components.



Image: Two children in lab coats preparing ingredients on the green lab bench, with a flexible mold in the foreground, demonstrating the initial setup phase.

## OPERATING INSTRUCTIONS: MAKING GUMMIES

The Science4you Gummy Sweets Lab allows you to create a variety of gummy candies. Follow these general steps, and refer to the online educational book for specific recipes and experiments, including making different flavors and textures.

1. **Prepare Gelatin Mixture:** Following the instructions in the online educational book, mix the flavored or neutral gelatin with water in the measuring cup or a microwave-safe container.
2. **Heat Mixture:** Carefully heat the mixture according to the recipe (e.g., in a microwave). Adult supervision is crucial during this step.

3. **Add Flavor/Color (Optional):** If desired, add additional food-grade flavorings or colors as instructed in the educational book.
4. **Pour into Molds:** Using the pipette dropper, carefully transfer the liquid gummy mixture into the multi-shape mold. The kit includes molds for various shapes like snakes, bears, hearts, stars, dinosaurs, and more, including a giant bear gummy.
5. **Chill and Set:** Place the filled molds into a refrigerator for the recommended time to allow the gummies to set.
6. **Demold and Enjoy:** Once set, gently remove the gummies from the flexible molds.

The kit also enables you to conduct scientific experiments to understand the properties of gummies and even learn how to make marshmallows for a fluffier texture. Explore the possibilities of creating sweet, sour, or double-flavored gummies.



Image: A child happily eating a gummy candy, with the lab bench and other kit components visible in the background, illustrating the enjoyment of the finished product.



Image: A collage showing various creations possible with the kit, including a large gummy bear, a stretchy gummy slime, and children engaged in the candy-making process.

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## MAINTENANCE

Proper cleaning and storage will ensure the longevity of your Gummy Sweets Lab components.

- **Cleaning Molds and Tools:** After each use, wash the silicone molds, measuring cup, pipette, and test tubes with warm soapy water. Rinse thoroughly and allow them to air dry completely before storing.
- **Lab Bench:** Wipe the lab bench with a damp cloth to remove any spills or residue.
- **Storage:** Store all components in a clean, dry place, preferably in the original kit box, away from direct sunlight and extreme temperatures.
- **Ingredient Storage:** Store any unused gelatin packets in a cool, dry place, sealed to maintain freshness.

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## TROUBLESHOOTING

- **Gummies Not Setting:**
  - Ensure the correct ratio of gelatin to water was used as per the recipe.
  - Verify that the mixture was heated sufficiently to dissolve the gelatin.
  - Allow adequate chilling time in the refrigerator.
- **Gummies are Too Sticky:**
  - This can happen if too much liquid is used or not enough gelatin.
  - Ensure proper chilling time.
- **Difficulty Demolding:**

- Ensure gummies are fully set and cold.
- The silicone molds are flexible; gently push from the bottom to release.
- **Taste Issues:**
  - Ensure all ingredients are fresh and within their expiry dates.
  - Follow the recipe precisely for ingredient quantities.

For further assistance, consult the online educational book or contact Science4you customer support.

SPECIFICATIONS

Product Dimensions	11.81 x 12.13 x 2.36 inches
Item Weight	10.6 ounces
Item Model Number	80004584
Manufacturer Recommended Age	8 years and up
ASIN	B0CBDBMRBP
Manufacturer	Science4you
Release Date	July 3, 2024

WARRANTY AND SUPPORT

Science4you provides a manufacturer's warranty for the Gummy Sweets Lab kit. For specific details regarding warranty coverage, duration, and claims, please refer to the product packaging or the official Science4you website. For technical support, missing parts, or any questions regarding the experiments, please contact Science4you customer service. You can often find contact information on the product box or through the official Science4you brand store:

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