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## Japace MDSC03

# Japace Science Kits Instruction Manual

Model: MDSC03

Brand: Japace

## INTRODUCTION

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This instruction manual provides essential information for the safe and effective use of your Japace Science Kit. This kit is designed to introduce children aged 4-8 to various scientific concepts through engaging experiments and building activities. It includes a wide range of science activities, motorized construction kits, and necessary tools and ingredients.



Image: The Japace Science Kit box, highlighting its "Fascinating Science Kit" title and "3in1 Science Lab" features, including construction kits, science crafts, and science experiments.

## SAFETY INFORMATION

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**Important:** This product is not suitable for children under 3 years old due to small parts which may present a choking hazard. Adult supervision is required for all experiments and building activities. Please read all instructions carefully before beginning any activity.

- Always perform experiments in a well-ventilated area.
- Keep all chemicals and components away from eyes and mouth.
- Wash hands thoroughly before and after handling materials.
- Do not ingest any materials from the kit.
- Dispose of waste materials according to local regulations.
- For motorized components, ensure correct battery insertion and do not mix old and new batteries or different battery types. Remove batteries if the product is not used for an extended period.

## WHAT'S IN THE BOX

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Your Japace Science Kit includes a comprehensive set of materials to conduct various experiments and build motorized models. The kit contains:

- Science lab accessories
- 3 DIY building toys
- Various ingredients for experiments
- Detailed instruction manual with step-by-step guides



Image: A complete layout of the Japace Science Kit contents, including the instruction manual, various beakers, tubes, powders, and components for the building sets.

## SETUP

Before starting any experiment or building project, ensure you have a clean, flat, and stable workspace. It is recommended to cover the work surface with newspaper or a protective mat to prevent spills or damage. Gather all necessary components and the instruction manual for the specific activity you plan to undertake.

- **Prepare the Workspace:** Choose a well-lit area, preferably a table, and protect it from potential spills.
- **Read Instructions:** Always read the specific instructions for each experiment or building kit thoroughly before

starting.

- **Gather Materials:** Ensure all required components and any additional household items (e.g., water, vinegar, batteries) are readily available.
- **Adult Supervision:** Ensure an adult is present and actively supervising the activity.

## OPERATING INSTRUCTIONS

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The Japace Science Kit offers 65 unique science experiments and 3 motorized building kits. Each activity has its own detailed, step-by-step instructions provided in the included manual. Below are general guidelines for engaging with the kit's various components.

### Science Experiments (e.g., Chemistry, Science Tricks)

The kit includes a variety of chemistry and science trick experiments designed to be both educational and fun. Examples include creating fizzy reactions, making polymer worms, growing crystals, and building a magnetic tree.

1. **Select an Experiment:** Choose an experiment from the instruction manual.
2. **Review Materials:** Identify all required kit components and any additional household items.
3. **Follow Steps:** Carefully follow the numbered steps and observe the accompanying illustrations in the manual.
4. **Observe and Learn:** Pay attention to the reactions and outcomes. The manual often provides explanations for the scientific principles involved.



Image: Examples of "Cool Chemistry" experiments, such as an underwater eruption in a test tube, making bubbles, a self-inflating balloon, and a "toothpaste" experiment with foam overflowing from a flask.

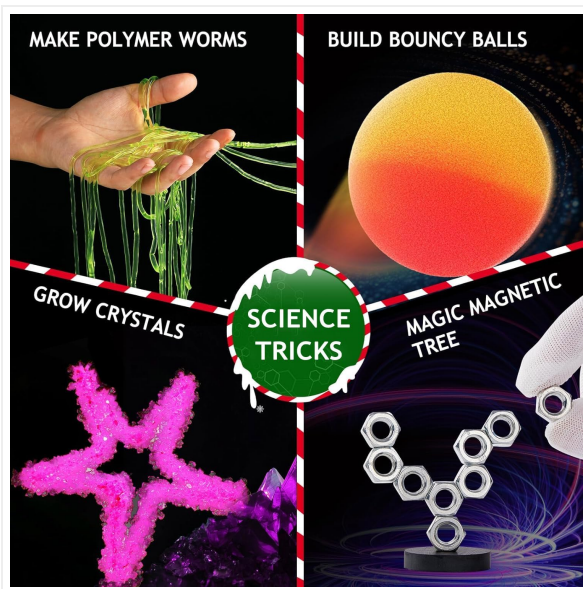


Image: Examples of "Science Tricks" experiments, including making polymer worms, building bouncy balls, growing crystals, and assembling a magic magnetic tree with nuts and a base.

# EVERYTHING YOU NEED FOR REALLY COOL EXPERIMENTS



Image: A child wearing safety goggles and a lab coat, looking through a magnifying glass while reading the detailed instruction manual for a science experiment, with various lab equipment on the table.

## DIY Motorized Building Kits

The kit includes three motorized building projects: a Draw Robot, a Bubble Machine, and a Vacuum Gun. These projects require assembly and often batteries (not included).

1. **Identify Components:** Locate all parts for the chosen building kit as per the manual.
2. **Assemble:** Follow the assembly instructions carefully, ensuring all connections are secure.
3. **Install Batteries:** If required, insert the correct type and number of batteries into the designated compartment, observing polarity.
4. **Test Functionality:** Once assembled, test the motorized function.

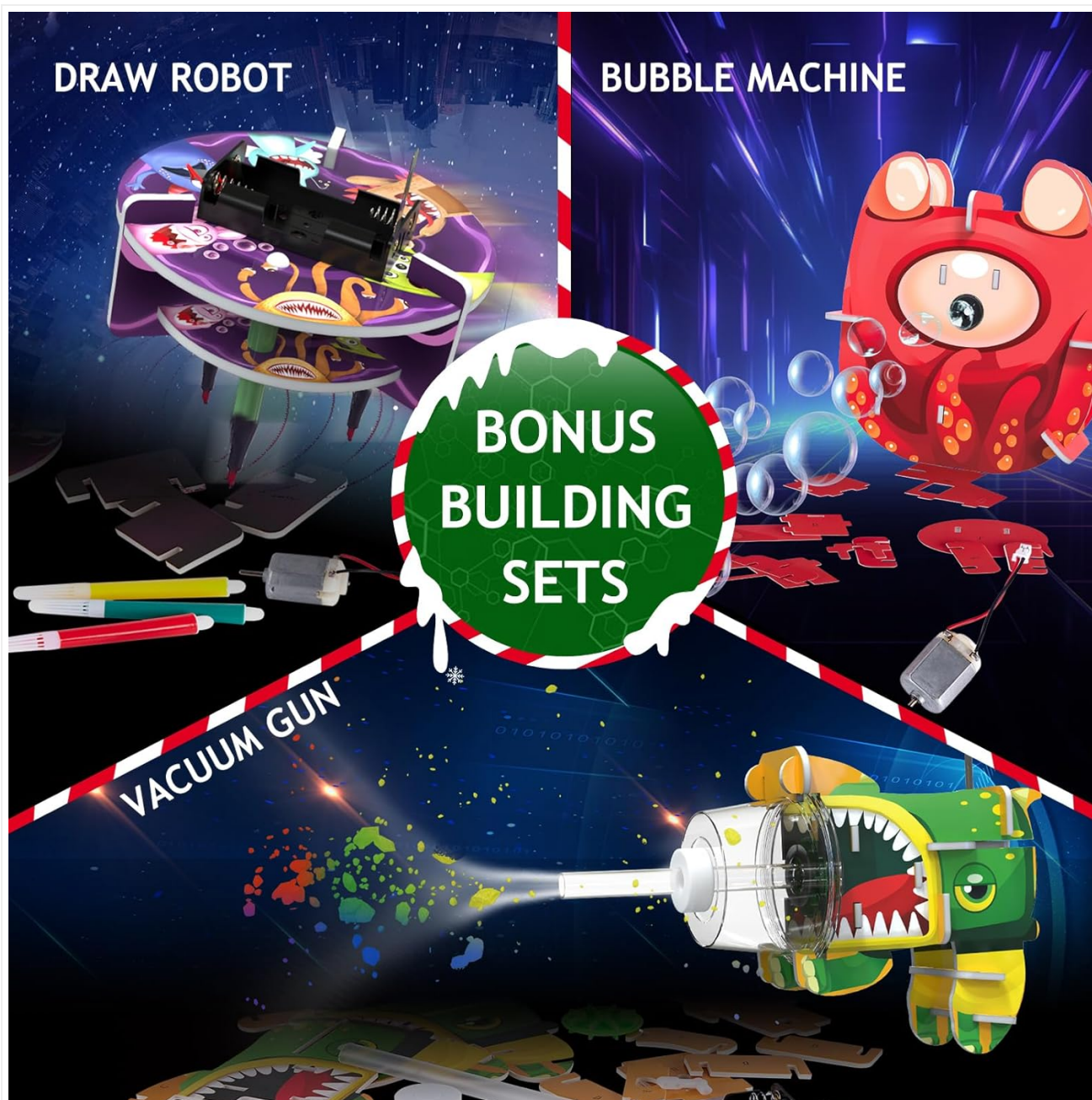


Image: Illustrations of the "Bonus Building Sets" including a "Draw Robot" with markers, a "Bubble Machine" with bubbles, and a "Vacuum Gun" with colorful particles.

## MAINTENANCE

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Proper maintenance ensures the longevity and safety of your science kit components.

- **Cleaning:** After each experiment, clean all reusable tools and containers with warm, soapy water. Rinse thoroughly and allow to air dry completely before storing.
- **Storage:** Store all components in their original packaging or a designated storage container in a cool, dry place, away from direct sunlight and out of reach of young children.
- **Component Check:** Periodically inspect all parts for wear, damage, or degradation. Replace any damaged components immediately.

## TROUBLESHOOTING

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If you encounter issues during experiments or with the building kits, consider the following:

- **Experiment Not Working:**

- Double-check the instructions to ensure all steps were followed precisely.
- Verify that the correct quantities of ingredients were used.
- Ensure any required external materials (e.g., fresh batteries, specific household items) are correct and in good condition.

- **Motorized Kit Malfunction:**

- Check battery orientation and ensure batteries are fresh.
- Verify all connections are secure and components are assembled correctly according to the manual.
- Ensure no foreign objects are obstructing moving parts.

- **Component Issues:** If any component appears damaged or defective, discontinue use and contact the manufacturer for assistance.

**Note on Battery Safety:** In rare instances, issues with motorized components, particularly those involving batteries, can lead to overheating or melting if not assembled correctly or if faulty batteries are used. Always ensure proper battery insertion and use only recommended battery types. If you observe any unusual heat, smoke, or melting, immediately remove the batteries (if safe to do so) and discontinue use of the component. Contact customer support for guidance.

## SPECIFICATIONS

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Feature	Detail
Product Dimensions	10 x 8 x 3 inches
Item Weight	2.88 pounds
Item Model Number	MDSC03
Manufacturer Recommended Age	4 - 8 years
Manufacturer	Japace

## WARRANTY AND SUPPORT

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Specific warranty information for the Japace Science Kit is not provided in the product details. For any product support, inquiries, or to report issues, please refer to the contact information provided on the product packaging or the official Japace website. It is recommended to retain your proof of purchase.