

## LEGO 42179

# LEGO Technic 42179 Earth and Moon in Orbit Model Instruction Manual

Detailed guidance for assembling and operating your LEGO Technic 42179 Earth and Moon in Orbit model.

## 1. INTRODUCTION

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The LEGO Technic 42179 Earth and Moon in Orbit set offers an engaging and educational building experience for individuals aged 10 and up. This model is designed to illustrate fundamental astronomical concepts, including the orbital mechanics of the Moon around the Earth, the Earth's gravitational influence, and how these rotations contribute to seasonal changes throughout the year. The set features a functional hand-crank mechanism that allows for manual simulation of these celestial movements, providing a tangible way to understand complex scientific principles.



Figure 1: The complete LEGO Technic 42179 Earth and Moon in Orbit model, showcasing the intricate design and planetary arrangement.

## 2. SAFETY INFORMATION

**WARNING: CHOKING HAZARD.** This product contains small parts and is not suitable for children under 36 months. Adult supervision is recommended during assembly and play for all ages.

## 3. WHAT'S IN THE BOX

Your LEGO Technic 42179 set includes:

- 526 LEGO Technic building elements.
- Instruction manual for assembly.
- Specialized elements for the Earth, Moon, and Sun models.
- Hand-crank mechanism components.



Figure 2: The back of the product box, providing an overview of the included components and key features.

## 4. ASSEMBLY INSTRUCTIONS

Follow the step-by-step instructions provided in the physical manual included with your set. For an enhanced building experience, utilize the official LEGO Builder app.

### Using the LEGO Builder App:

The LEGO Builder app offers intuitive 3D building instructions. You can zoom in, rotate your model from any angle, save your progress, and track your completion. This digital guide complements the physical instructions for a seamless assembly process.



Figure 3: The LEGO Builder app provides interactive 3D building instructions, allowing users to zoom, rotate, save progress, and enhance the assembly experience.



Figure 4: The assembly process is designed to be engaging for both children and adults, fostering a collaborative building experience.

## 5. OPERATING INSTRUCTIONS

Once assembled, the LEGO Technic 42179 model allows you to simulate the Earth and Moon's orbital movements.

### Manual Operation:

Locate the hand-crank on the side of the model. Gently turn the crank to initiate the orbital motion. Observe how the Moon revolves around the Earth, and how both celestial bodies orbit the central Sun model. The printed months and lunar phases on the base will align to demonstrate the progression through the year and the changing appearance of the Moon.



**Tournez la manivelle pour créer  
les mouvements orbitaux**

Figure 5: Turn the hand-crank to activate the orbital movements of the Earth and Moon around the Sun.



## Inclut les mois et les phases de la Lune imprimés

Figure 6: The base of the model displays printed months and lunar phases, illustrating the annual progression and lunar cycle.

### Enhanced Visuals (Optional Lighting Kits):

Some third-party sellers offer lighting kits specifically designed for the LEGO Technic 42179 model. These kits can illuminate the Sun, Earth, and other parts of the model, enhancing its visual appeal, especially in low-light conditions. Please note that these lighting kits are not official LEGO products and are sold separately.

Video 1: This video showcases the LEGO Technic 42179 model enhanced with a lighting kit, illuminating the Sun, Earth, and the base to highlight the orbital movements in a darkened environment. Note: The lighting kit is not included with the standard LEGO set.

Video 2: This video demonstrates the LEGO Technic 42179 model with an additional lighting kit, illustrating how the Sun and Earth can be lit up to enhance the visual representation of the solar system. Note: The lighting kit is not included with the standard LEGO set.

## 6. FEATURES AND EDUCATIONAL VALUE

The LEGO Technic 42179 model is designed to be both entertaining and educational, offering several key features:

- **Interactive Model:** Recreate the movements of the Earth, Moon, and Sun with a creative construction toy designed

for children aged 10 and up.

- **Educational Space Theme:** Turn the crank to observe how the Earth and Moon orbit the Sun, providing a creative way to learn about the solar system.
- **Months and Lunar Phases:** Printed months and lunar phases on the model help children understand the impact of Earth's orbit on seasons.
- **Engineering Principles:** LEGO Technic sets introduce young builders to the world of engineering through realistic details and functional mechanisms.
- **Digital Building Experience:** The LEGO Builder app guides children through an intuitive building adventure, allowing them to zoom, rotate 3D models, save sets, and track progress.



Figure 7: The model offers a fun and interactive way to explore the solar system, making learning engaging for young enthusiasts.

## 7. SPECIFICATIONS

Brand	LEGO
Model Name	42179

<b>Recommended Age</b>	10 years +
<b>Number of Pieces</b>	526
<b>Material</b>	Plastic
<b>Color</b>	Multicolor
<b>Dimensions (L x W x H)</b>	33 cm x 18 cm x 24 cm (approx.)
<b>Weight</b>	994 Grams
<b>Special Features</b>	Interactive, Educational on Solar System, Indicates Lunar Phases

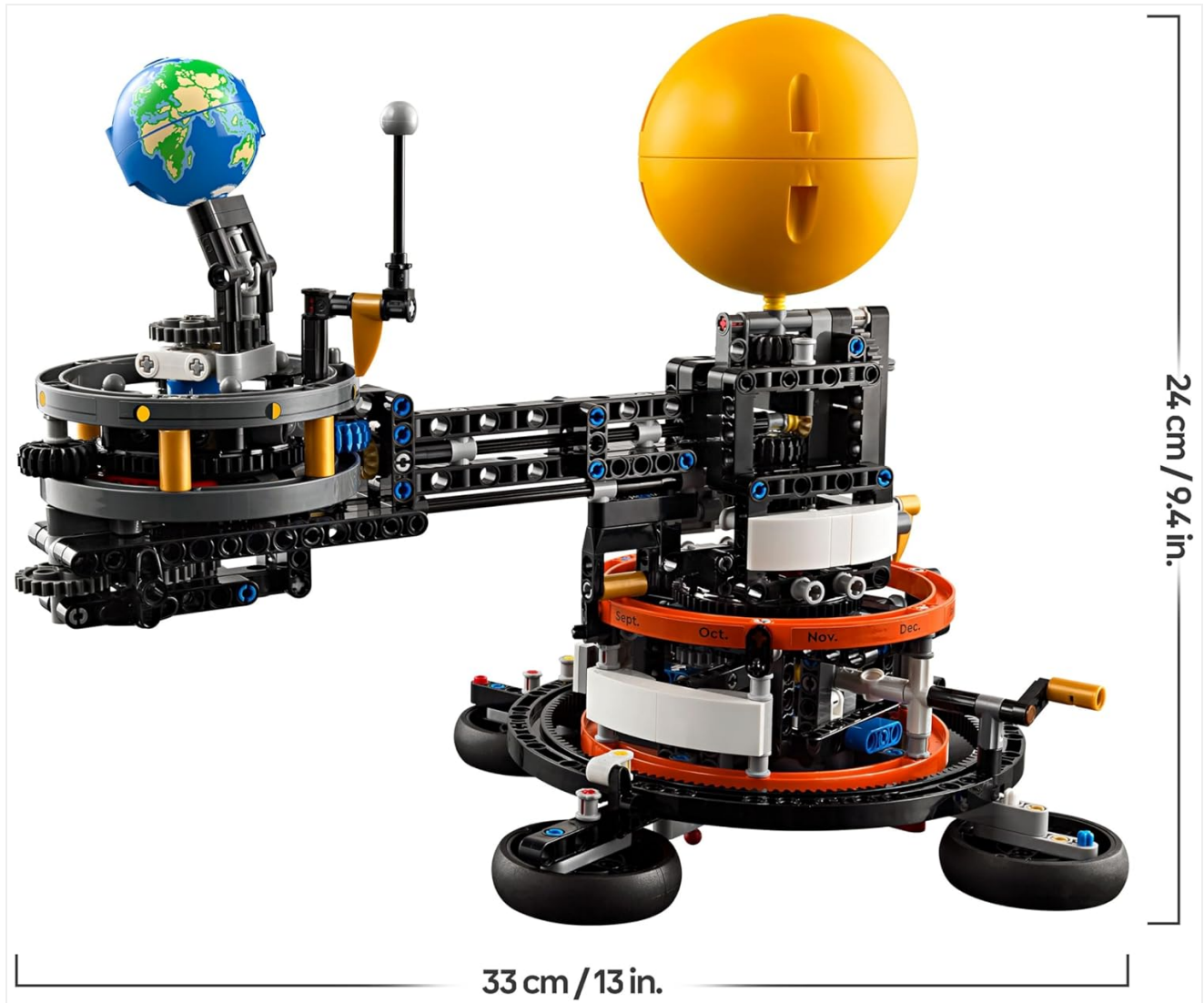


Figure 8: Detailed dimensions of the assembled LEGO Technic 42179 model.

## 8. MAINTENANCE

To ensure the longevity and optimal performance of your LEGO Technic model, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe away dust. For more thorough cleaning, use a mild soap solution and a soft brush, then rinse with clean water and air dry. Avoid harsh chemicals or abrasive materials.
- **Storage:** Store the model in a cool, dry place away from direct sunlight to prevent discoloration or warping of plastic elements.

- **Handling:** Handle the model with care, especially when operating the crank mechanism, to avoid stressing the gears and connections.

## 9. TROUBLESHOOTING

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If you encounter any issues during assembly or operation, consider the following common troubleshooting steps:

- **Missing Pieces:** If you find any missing pieces, please visit the official LEGO Customer Service website to request replacement parts.
- **Assembly Difficulties:** Double-check the instruction manual or the LEGO Builder app to ensure all steps have been followed correctly. Sometimes a small misplaced piece can affect subsequent steps.
- **Mechanism Not Functioning Smoothly:** Ensure all gears and connecting elements are properly aligned and securely attached. Check for any obstructions or misaligned parts that might impede movement.

## 10. WARRANTY AND SUPPORT

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LEGO products are manufactured to high-quality standards. If you have any questions, concerns, or require support regarding your LEGO Technic 42179 set, please refer to the official LEGO Customer Service channels. Information regarding product warranty and support can typically be found on the LEGO website or by contacting their customer service directly.

For further assistance, visit [www.lego.com/service](http://www.lego.com/service).