

# Asian Try Zero-G 2025



## Attachment-1: Video List

### 2011 Astronaut Furukawa

| Experiment Title                   | URL   | Tool (Attachment)     |
|------------------------------------|---|-----------------------|
| The Experiment of a Yo-yo in Space | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=3ecb00d63fc79af9dbfc7672d9b472a3">https://jda.jaxa.jp/result.php?lang=e&amp;id=3ecb00d63fc79af9dbfc7672d9b472a3</a> | -                     |
| Conservation of Weight             | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=4520cd463ae5e3a03a4eed49f4a1e6eb">https://jda.jaxa.jp/result.php?lang=e&amp;id=4520cd463ae5e3a03a4eed49f4a1e6eb</a> | Attachment-2, No.5, 8 |
| Soap Bubbles Floating in space     | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=616aab49fb7d20774ba6c09816e3b935">https://jda.jaxa.jp/result.php?lang=e&amp;id=616aab49fb7d20774ba6c09816e3b935</a> | -                     |
| Compass                            | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=027c98b5d98c0cc438d0cc2463e8a41e">https://jda.jaxa.jp/result.php?lang=e&amp;id=027c98b5d98c0cc438d0cc2463e8a41e</a> | Attachment-2, No.3    |

### 2012 Astronaut Hoshide

| Experiment Title                      | URL  | Tool (Attachment)  |
|---------------------------------------|--|--------------------|
| Weight Station                        | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>0:00-1:34 | Attachment-2, No.6 |
| Effect of gravity on capillary action | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>1:34-3:13 | -                  |
| Verification of Inertia               | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>3:13-5:10 | Attachment-2, No.1 |
| Liquid Stuck in Straw                 | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>5:10-7:00 | -                  |
| Juggling in Space                     | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>7:00-7:48 | Attachment-2, No.1 |
| Weight suspended from bar             | <a href="https://www.youtube.com/watch?v=xMJq4v5VQzY">https://www.youtube.com/watch?v=xMJq4v5VQzY</a><br>7:48-8:56 | -                  |

### 2014 Astronaut Wakata

| Experiment Title                    | URL  | Tool (Attachment)  |
|-------------------------------------|--|--------------------|
| Capillarity under zero-gravity      | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#">https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#</a><br>0:00-2:23 | Attachment-2, No.7 |
| Growing bubbles in a glass of water | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#">https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#</a>              | -                  |

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|   |   |                       |
|---|---|-----------------------|
|   | 2:23-3:46   |                       |
| Bernoulli's principle                     | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#">https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#</a><br>3:46-7:43  | -                     |
| Mass and weight comparison center of mass | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#">https://jda.jaxa.jp/result.php?lang=e&amp;id=960efc6afd7703ef51eccb827a22363c#</a><br>7:43-12:29 | Attachment-2, No.1, 7 |

## 2015 Astronaut Yui

| Experiment Title  | URL   | Tool (Attachment)     |
|---|---|-----------------------|
| Spinning a ball on its own axis with one finger         | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=496e0f3e0d734207c7eb6ef91b9a9f64">https://jda.jaxa.jp/result.php?lang=e&amp;id=496e0f3e0d734207c7eb6ef91b9a9f64</a>   | Attachment-2, No.9    |
| Can we make wind in space?                              | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=8f7a4d0c0c981f44ab4a0f45e9098247#">https://jda.jaxa.jp/result.php?lang=e&amp;id=8f7a4d0c0c981f44ab4a0f45e9098247#</a> | Attachment-2, No.1    |
| The incredible hoop glider!                             | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=4dae01ecf2c6ad956c957a7b2700fd6b#">https://jda.jaxa.jp/result.php?lang=e&amp;id=4dae01ecf2c6ad956c957a7b2700fd6b#</a> | -                     |
| Paper ball inside a water ball                          | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=844daf0c10ac4137182fdc12343f63e7#">https://jda.jaxa.jp/result.php?lang=e&amp;id=844daf0c10ac4137182fdc12343f63e7#</a> | -                     |
| Zero-G painting   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=b618fdd6cd41c87509c50c361802a2f8#">https://jda.jaxa.jp/result.php?lang=e&amp;id=b618fdd6cd41c87509c50c361802a2f8#</a> | Attachment-2, No.7    |
| Sizable substance set on somersaulting stretched slinky | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=342aefe980eba18144f65547b86ef977#">https://jda.jaxa.jp/result.php?lang=e&amp;id=342aefe980eba18144f65547b86ef977#</a> | Attachment-2, No.2, 4 |

## 2016 Astronaut Onishi

| Experiment Title          | URL   | Tool (Attachment)      |
|---------------------------|---|------------------------|
| The Flying Paper Plane    | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=edc947cfea9aab115037268b47df5434">https://jda.jaxa.jp/result.php?lang=e&amp;id=edc947cfea9aab115037268b47df5434</a>   | -                      |
| Magnus Effect             | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=6d4d7d5229159d6362647b4d752680d6#">https://jda.jaxa.jp/result.php?lang=e&amp;id=6d4d7d5229159d6362647b4d752680d6#</a> | Attachment-2, No.2, 13 |
| Blocks in Jar             | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=7d47a857bf08b2fd7bd07b6828b0bcd8#">https://jda.jaxa.jp/result.php?lang=e&amp;id=7d47a857bf08b2fd7bd07b6828b0bcd8#</a> | Attachment-2, No.2     |
| Capillary in Zero Gravity | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=1032d0dbf7abf05831e4fb0338962186#">https://jda.jaxa.jp/result.php?lang=e&amp;id=1032d0dbf7abf05831e4fb0338962186#</a> | Attachment-2, No.14    |
| Liquid Density Action     | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=da6d7e02188aca85c7f547a0801dad4e#">https://jda.jaxa.jp/result.php?lang=e&amp;id=da6d7e02188aca85c7f547a0801dad4e#</a> | Attachment-2, No.14    |

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## 2018 Astronaut Kanai

| Experiment Title           | URL   | Tool (Attachment)         |
|----------------------------|---|---------------------------|
| Paper Boomerang            | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=a67cadd4bc39ab23f0df9ee3ba6ba2d#">https://jda.jaxa.jp/result.php?lang=e&amp;id=a67cadd4bc39ab23f0df9ee3ba6ba2d#</a>   | -                         |
| Aircraft Stability         | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=308a7dc67e07acf5ba820a2224c36ab5#">https://jda.jaxa.jp/result.php?lang=e&amp;id=308a7dc67e07acf5ba820a2224c36ab5#</a> | -                         |
| Spinning Ring              | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=bdc5b4dfdfc55b5a9c9aa6f103f51d20#">https://jda.jaxa.jp/result.php?lang=e&amp;id=bdc5b4dfdfc55b5a9c9aa6f103f51d20#</a> | Attachment-2, No.7        |
| Gyroscope & Tippe Top      | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=abd471ef90d070a886bad210e2f1d122#">https://jda.jaxa.jp/result.php?lang=e&amp;id=abd471ef90d070a886bad210e2f1d122#</a> | Attachment-2, No.11, 12   |
| Wire Top                   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=b0e4b19524fcc8e1a9cb787fe27644a#">https://jda.jaxa.jp/result.php?lang=e&amp;id=b0e4b19524fcc8e1a9cb787fe27644a#</a>   | Attachment-2, No.20       |
| Balls inside Slinky        | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=023d9bda5849212fe34a39024621ec76#">https://jda.jaxa.jp/result.php?lang=e&amp;id=023d9bda5849212fe34a39024621ec76#</a> | Attachment-2, No.2, 4, 13 |
| Paper Spring               | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=989bb63650d20b748085b0cab9afc2cc#">https://jda.jaxa.jp/result.php?lang=e&amp;id=989bb63650d20b748085b0cab9afc2cc#</a> | Attachment-2, No.1        |
| Double-Layered Liquid Ball | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=58980b07704754cea5a63e23db4bf1bc#">https://jda.jaxa.jp/result.php?lang=e&amp;id=58980b07704754cea5a63e23db4bf1bc#</a> | -                         |

## 2022 Astronaut Wakata

| Experiment Title  | URL   | Tool (Attachment)   |
|---|---|---------------------|
| Rotation of 'Dumbbell-shaped' objects in Space  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=2ca9eff2f38e615cf24a7bcc9c03620c">https://jda.jaxa.jp/result.php?lang=e&amp;id=2ca9eff2f38e615cf24a7bcc9c03620c</a> | Attachment-2, No.15 |
| The Water Vortex in Zero Gravity Condition  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=2a6af73a4a57fe78e72eb0ce46aad532">https://jda.jaxa.jp/result.php?lang=e&amp;id=2a6af73a4a57fe78e72eb0ce46aad532</a> | -                   |
| Double Pendulum in space  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=02243e3ae16e33fad865eb1246212bc2">https://jda.jaxa.jp/result.php?lang=e&amp;id=02243e3ae16e33fad865eb1246212bc2</a> | -                   |
| Self-assembly of granular gas and three-dimensional pattern formation in a microgravity environment | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=ca7f57030f70df5aa648b2b9265d5793">https://jda.jaxa.jp/result.php?lang=e&amp;id=ca7f57030f70df5aa648b2b9265d5793</a> | -                   |
| Study of the height of water which is risen up in microgravity                                      | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=cf01555be386403aaddfd6a3d26bf99f">https://jda.jaxa.jp/result.php?lang=e&amp;id=cf01555be386403aaddfd6a3d26bf99f</a> | -                   |
| Water sphere disturbance in zero gravity  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=287232f0b0991fb1dd66308361e7cd33">https://jda.jaxa.jp/result.php?lang=e&amp;id=287232f0b0991fb1dd66308361e7cd33</a> | -                   |

## 2023 Astronaut Furukawa

| Experiment Title | URL | Tool (Attachment) |
|------------------|-----|-------------------|
|------------------|-----|-------------------|

# Asian Try Zero-G 2025



|  |   |                         |
|--|---|-------------------------|
| Twist Athlete Robot Experiment   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=b27788763ac22beba879023fd713c045">https://jda.jaxa.jp/result.php?lang=e&amp;id=b27788763ac22beba879023fd713c045</a> | Attachment-2, No.21     |
| Stranger things two ball on string   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=4195d183a19daaad45e6be3af63e976e">https://jda.jaxa.jp/result.php?lang=e&amp;id=4195d183a19daaad45e6be3af63e976e</a> | Attachment-2, No.24     |
| Lato-Lato motion trials in zero gravity<br>Try a total elastic collision in space using the Lato-Lato game | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=98ad1efd0c6d6f6977466dc100f52b3f">https://jda.jaxa.jp/result.php?lang=e&amp;id=98ad1efd0c6d6f6977466dc100f52b3f</a> | Attachment-2, No.26, 27 |
| Finding the shape of Magnetic Field Lines  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=c99f9f57f0f19a2af9eebd6e0da931d7">https://jda.jaxa.jp/result.php?lang=e&amp;id=c99f9f57f0f19a2af9eebd6e0da931d7</a> | Attachment-2, No.28     |
| Magnus Glider Looping Phase in Microgravity<br>Behaviors of the magnus effect in zero-gravity              | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=babbc55c217ed61a51c486d19dcd7085">https://jda.jaxa.jp/result.php?lang=e&amp;id=babbc55c217ed61a51c486d19dcd7085</a> | Attachment-2, No.29, 30 |
| Water Spheres and Electrostatic Force  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=2cd97b46830cdc0c3c278c56169a96ee">https://jda.jaxa.jp/result.php?lang=e&amp;id=2cd97b46830cdc0c3c278c56169a96ee</a> | Attachment-2, No.32, 33 |
| Oloid's Movement in Microgravity   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=e8ffb8ac29cd49568b02b33452ee2fe1">https://jda.jaxa.jp/result.php?lang=e&amp;id=e8ffb8ac29cd49568b02b33452ee2fe1</a> | -                       |
| Acceleration of liquid surface in capillary action in microgravity   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=f9dc4b24a605cfebf6f5c44c6795e412">https://jda.jaxa.jp/result.php?lang=e&amp;id=f9dc4b24a605cfebf6f5c44c6795e412</a> | Attachment-2, No.35     |
| Zero-G Siphon  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=169bc577d8d4faf39cf4a229b1223bdb">https://jda.jaxa.jp/result.php?lang=e&amp;id=169bc577d8d4faf39cf4a229b1223bdb</a> | Attachment-2, No.35, 36 |
| Let us blow (exercise)   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=6d156d6c8b6625976efb4970a61ef42d">https://jda.jaxa.jp/result.php?lang=e&amp;id=6d156d6c8b6625976efb4970a61ef42d</a> | Attachment-2, No.37, 38 |
| Flexibility exercises with rope (exercise)   | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=bd1a756bcd3e0f9bac6fceb5b160b47">https://jda.jaxa.jp/result.php?lang=e&amp;id=bd1a756bcd3e0f9bac6fceb5b160b47</a>   | -                       |
| The Effectivity of Elastic Resistance Band Exercise When Performed in Zero-Gravity (exercise)              | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=69dce16cbdc9b8aee6b1e3e7a22c3e92">https://jda.jaxa.jp/result.php?lang=e&amp;id=69dce16cbdc9b8aee6b1e3e7a22c3e92</a> | -                       |
| Starfish exercise for Microgravity (exercise)  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=11079bfe25b8659cfc9677c008ceb2a2">https://jda.jaxa.jp/result.php?lang=e&amp;id=11079bfe25b8659cfc9677c008ceb2a2</a> | -                       |
| Rubber gymnastics on air chair (exercise)  | <a href="https://jda.jaxa.jp/result.php?lang=e&amp;id=ae0173129ad521ccfd8d982278f0d2d">https://jda.jaxa.jp/result.php?lang=e&amp;id=ae0173129ad521ccfd8d982278f0d2d</a>   | -                       |

## Summary of Asian Try-Zero-G videos

- [2018 \(Astronaut Kanai\)](#)
- [2022 \(Astronaut Wakata\)](#)
- [2023 \(Astronaut Furukawa\)](#)

## Other videos

# Asian Try Zero-G 2025



- [2009 \(Astronaut Wakata\)](#)<sup>\*1</sup>
- 2010 (Astronaut Noguchi①, ②)<sup>\*1</sup>
- [2014 \(Astronaut Wakata\)](#)<sup>\*1</sup>
- 2016 (Astronaut Onishi①, ②, ③, ④, ⑤, ⑥)<sup>\*2</sup>

\*1: Japanese audio with English subtitles

\*2: Japanese audio only