Asian Try Zero-G 2025

Attachment-2: Available Items (1/13)

No.1

Blocks
Weight Kit (Blocks)

Material
Aluminum, Steel, Polymer, Wood

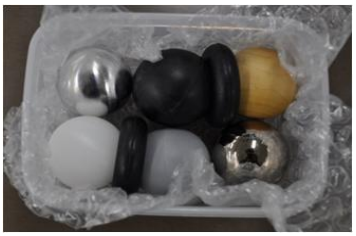
Size
L 30 x W 30 x H 30 [mm]

Mass
Aluminum : 73 [g]
Steel : 210 [g]
Polymer : 38 [g]
Wood : 12 [g]

Quantity
1 set

Reference
- Astronaut Hoshide, 2012 (3:13-5:10, 7:00-7:48)
- Astronaut Wakata, 2014 (7:43-12:29)
- Astronaut Yui, 2014
- Astronaut Kanai, 2018

No.2



Mass Comparison Kit (Balls)

Material
Aluminum, Polyethylene, Vinyl, Rubber, Wood, Steel

Size
dia. 27 [mm]

Mass
Aluminum : 40 [g]
Polyethylene : 14 [g]
Vinyl : 20 [g]
Rubber : 21 [g]
Wood : 9 [g]
Steel : 110 [g]

Quantity
2 sets

Reference
- Astronaut Yui, 2015
- Astronaut Onishi, 2016
- Astronaut Onishi, 2016
- Astronaut Kanai, 2018

No.3

Compass

Material
Aluminum

Size
L 73 x W 54 x H 23 [mm]

Mass
66 [g]

Quantity
1

Reference
Astronaut Furukawa, 2011

Asian Try Zero-G 2025

Attachment-2: Available Items (2/13)

No.4

Slinky

Material
Steel

Size
dia. 40 x L 32 [mm]
(Inside dia. 37 [mm])

Mass
46 [g]

Quantity
1

Reference
- Astronaut Yui, 2015
- Astronaut Kanai, 2018

No.5

Spring Kit (Springs, Weights)

Material
Steel

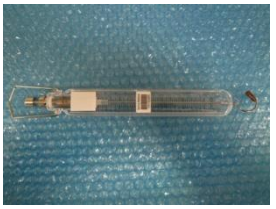
Size
Large Spring : dia. 14 x L 91 [mm]
Medium Spring : dia. 9 x L 75 [mm]
Small Spring : dia. 5 x L 46 [mm]
Weight : dia. 20 x L 9 [mm]
(include hooks: L 29 x W 20 x H 20 [mm])

Mass
Large Spring : 17 [g]
Medium Spring : 6 [g]
Small Spring : 1.25 [g]
Weight : 25 [g]

Quantity
1 set (Spring: each 1, Weight: 3)

Reference
Astronaut Furukawa, 2011

No.6



Spring Balance

Material
Case: Acrylic resin, Spring: Steel

Size
L 30 x W 250 x H 20 [mm]

Mass
69 [g]

Quantity
1

Reference
- Astronaut Hoshide, 2012 (0:00-1:34)

Asian Try Zero-G 2025

Attachment-2: Available Items (3/13)

No.7

Ink Brush

Material
Polyester

Size
L 234 x W 9 x H 5 [mm]

Mass
5 [g]

Quantity
1

Reference
- Astronaut Wakata, 2014 (0:00-2:23, 7:43-12:29)
- Astronaut Yui, 2015
- Astronaut Kanai, 2018

No.8

Origami Paper

Material
Paper

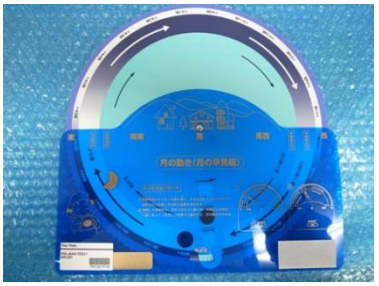
Size
L 150 x W 150 x H 0.1 [mm]

Mass
1 [g]

Quantity
3 sets

Reference
Astronaut Furukawa, 2011

No.9



Star Chart

Material
Plastic

Size
L 273 x W 276 x H 1 [mm]

Mass
68 [g]

Quantity
1

Reference
- Astronaut Yui, 2018

Asian Try Zero-G 2025

Attachment-2: Available Items (4/13)

No.10

Tape measure

Material
Case: Plastic, Tape: Vinyl

Size
L 52 x W 52 x H 17 [mm]
(Tape length: 1.5 [m])

Mass
27 [g]

Quantity
1

No.11

Tppe Top

Material
Wood

Size
dia. 26 x L 34 [mm]

Mass
8 [g]

Quantity
2

Reference
Astronaut Kanai, 2018

No.12

Gyroscope

Material
Steel

Size
dia. 61 x L 87 [mm]
(Thread length: 500 [mm])

Mass
80 [g]

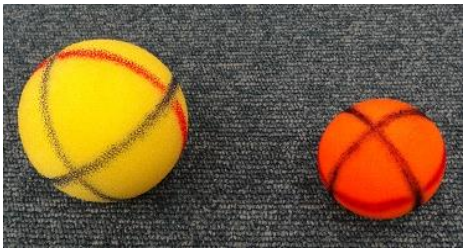
Quantity
2

Reference
Astronaut Kanai, 2018

Asian Try Zero-G 2025

Attachment-2: Available Items (5/13)

No.13



Sponge Ball

Material
Polyurethane

Size
Yellow: dia. 75 [mm]
Orange 1: dia. 50 [mm]
Orange 2 : dia. 26 [mm]

Mass
Yellow: 6.3 [g]
Orange 1 : 1.2 [g]
Orange 2: 0.22 [g]

Quantity
Yellow: 1
Orange 1 : 1
Orange 2: 2

Reference
- Astronaut Onishi, 2016
- Astronaut Kanai, 2018

No.14

Plastic Syringe

Material
Plastic

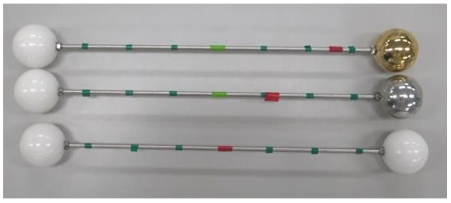
Size
30ml: L 139 x W 40 D 29 [mm]
50ml : L 144 x W 47 D 35 [mm]

Mass
30ml : 20 [g]
50ml : 24 [g]

Quantity
30ml :2
50ml :5

Reference
- Astronaut Onishi, 2016
- Astronaut Onishi, 2016

No.15



Rotator Pack
(Weights attached bar's both ends)

Material
Bar: Steel,
Ball: Plastic , Aluminum, Brass

Size
dia. 30 x L 267 [mm]

Mass
Plastic – Plastic : 52 [g]
Plastic – Aluminum: 73 [g]
Plastic – Brass : 151 [g]

*Individual Mass
Bar : 14 [g]
Plastic Ball : 19 [g]
Aluminum Ball: 40 [g]
Brass Ball : 118 [g]

Quantity
3

Reference
- Astronaut Wakata, 2022

Attachment-2: Available Items (6/13)

No.16


Spool Pack (Spools)

Material
Wood, Aluminum, Cotton

Size
dia. 90 x L 56 [mm]

Mass
Wood : 45 [g]/123 [g] (thick roll)
Aluminum : 129 [g]

Quantity
3

No.17

Parachute Pack (Parachute, Weights)

Material
Parachute: Nylon
Weight: Wood and Brass

Size
Parachute : dia. 430 x L 430 [mm]
Wood Weight : dia. 30 x L 45 [mm]
Brass Weight : dia. 30 x L 45 [mm]

Mass
Parachute : 19 [g]
Wood Weight : 14 [g]
Brass Weight : 123 [g]

Quantity
1 set

No.18

Flapping Bird

Material
Plastic

Size
L 260 x W 160 x H 40 [mm]

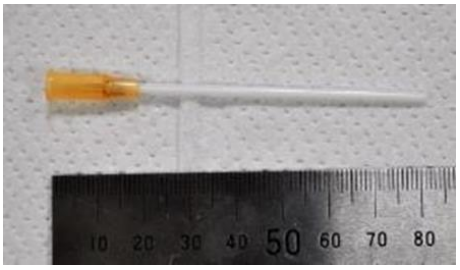
Mass
11 [g]

Quantity
1

Asian Try Zero-G 2025

Attachment-2: Available Items (7/13)

No.19



Syringe Adapter

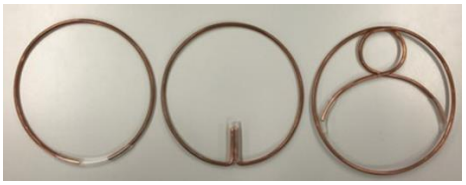
Material
Plastic

Size
L 82 x W 8 x D 6 [mm]

Mass
0.4 [g]

Quantity
2

No.20



Wire Top (Type A, B, C)

Material Copper

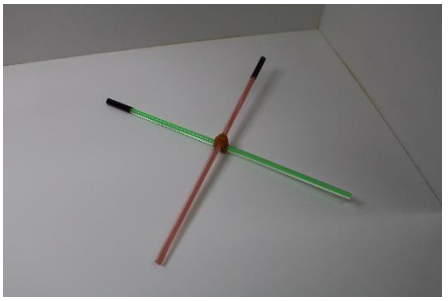
Size Wire: 2 [mm]
Type A: dia. 81 x H 2.1 [mm]
Type B: dia. 81 x H 4.8 [mm]
Type C: dia. 83 x H 3.8 [mm]

Mass
Type A: 6.49 [g]
Type B: 8.11 [g]
Type C: 11.87 [g]

Quantity
1 set

Reference
Astronaut Kanai, 2018

No.21



Acrylic Stick experiment kit

Material
Acrylic, Crude rubber

Size
L 250 x W 250 x H 17 [mm]

Mass
17 [g]

Reference
Astronaut Furukawa, 2023

Attachment-2: Available Items (8/13)

No.22	No.23	No.24
 **Acrylic stick** Material Acrylic Size L 250 x W 6 x H 6 [mm] Mass 8.5 [g]	 **Crude rubber** Material Crude rubber Size L 50 x W 50 x H 2 [mm] Mass 0.2 [g]	 **Two ball string experiment kit** Material Aluminum, Nomex Size L 20 x W 645 x H 20 [mm] Mass 24 [g] Reference Astronaut Furukawa, 2023

Attachment-2: Available Items (9/13)

No.25

Aluminum ball

Material
Aluminum

Size
L 20 x W 20 x H 20 [mm]

Mass
11 [g]

No.26

Nomex rope

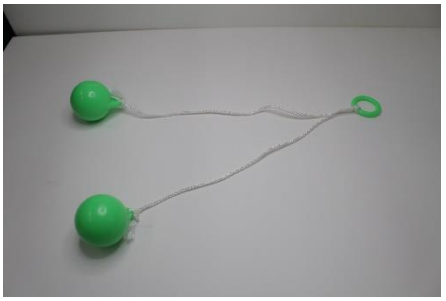
Material
Nomex

Size
L 1000 (As required) x W 3 x H 0.5 [mm]

Mass
1.5 [g]

Reference
Astronaut Furukawa, 2023

No.27



Rope clackers

Material
Plastic

Size
L 47 x W 549 x H 47 [mm]

Mass
60 [g]

Reference
Astronaut Furukawa, 2023

Attachment-2: Available Items (10/13)

No.28	No.29	No.30
		
Stick clackers Material Plastic Size L 180 x W 550 x H 25 [mm] Mass 24 [g] Reference Astronaut Furukawa, 2023	**Magnet** Material Magnet Size L 50 x W 9 x H 9 [mm] Mass 24 [g] Reference Astronaut Furukawa, 2023	**Magnus Glider experiment kit (cup)** Material Paper Size L 80 x W 240 x H 80 [mm] Mass 17 [g] Reference Astronaut Furukawa, 2023

Attachment-2: Available Items (11/13)

No.31

Magnus Glider experiment kit (Crude rubber)

Material
Crude rubber

Size
L 1 x W 225 x H 2 [mm]

Mass
0.5 [g]

Reference
Astronaut Furukawa, 2023

No.32

Cup

Material
Paper

Size
L 80 x W 120 x H 80 [mm]

Mass
8 [g]

No.33

Colored water bag

Material
PVC

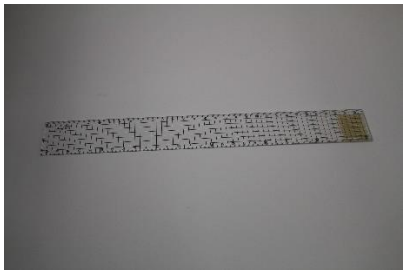
Size
L 250 x W 130 x H 2 [mm]

Mass
237 [g]

Reference
Astronaut Furukawa, 2023

Attachment-2: Available Items (12/13)

No.34



Ruler

Material
Acrylic

Size
L 35 x W 311 x H 4 [mm]

Mass
27 [g]

Reference
Astronaut Furukawa, 2023

No.35

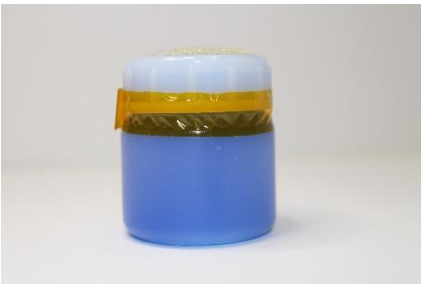
Lint free wipe

Material
Paper

Size
L 325 x W 385 x H 1 [mm]

Mass
9.3 [g]

No.36



Colored Water Container

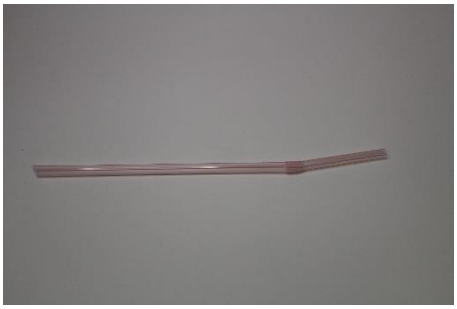
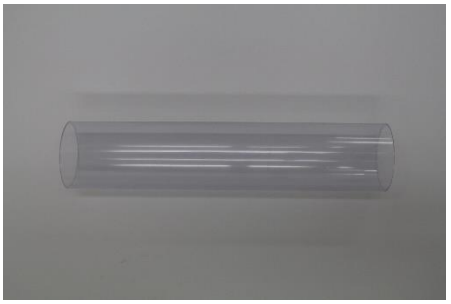
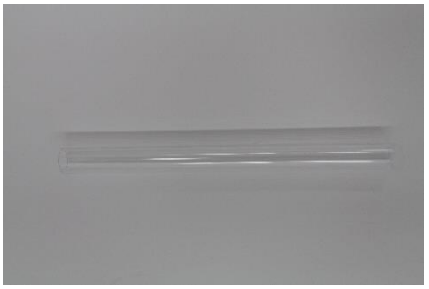
Material
Polyethylene, colored water

Size
L 50 x W 50 x H 60 [mm]

Mass
91 [g]

Reference
Astronaut Furukawa, 2023
Astronaut Furukawa, 2023

Attachment-2: Available Items (13/13)

No.37	No.38	No.39
		
Straw Material Plastic Size L 50 x W 50 x H 60 [mm] Mass 0.3 [g] Reference Astronaut Furukawa, 2023	**3 cm pipe** Material Acrylic Size L 150 x W 32 x H 32 [mm] Mass 19 [g] Reference Astronaut Furukawa, 2023	**1 cm pipe** Material Acrylic Size L 150 x W 12 x H 12 [mm] Mass 7 [g] Reference Astronaut Furukawa, 2023