

Attachment-2: Available Items (1/13)

No.1  Blocks Weight Kit (Blocks) <u>Material</u> Aluminum, Steel, Polymer, Wood <u>Size</u> L 30 x W 30 x H 30 [mm] <u>Mass</u> Aluminum : 73 [g] Steel : 210 [g] Polymer : 38 [g] Wood : 12 [g] <u>Quantity</u> 1 set <u>Reference</u> • 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) <u>Material</u> Aluminum, Polyethylene, Vinyl, Rubber, Wood, Steel <u>Size</u> dia. 27 [mm] <u>Mass</u> Aluminum : 40 [g] Polyethylene : 14 [g] Vinyl : 20 [g] Rubber : 21 [g] Wood : 9 [g] Steel : 110 [g] <u>Quantity</u> 2 sets <u>Reference</u> • Astronaut Yui, 2015 • Astronaut Onishi, 2016 • Astronaut Onishi, 2016 • Astronaut Kanai, 2018	No.3 Intentionally left out
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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)

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 Intentionally left out	No.9 Intentionally left out
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Attachment-2: Available Items (4/13)

No.10  Tape measure <u>Material</u> Case: Plastic, Tape: Vinyl <u>Size</u> L 52 x W 52 x H 17 [mm] (Tape length: 1.5 [m]) <u>Mass</u> 27 [g] <u>Quantity</u> 1	No.11 Intentionally left out	No.12  Gyroscope <u>Material</u> Steel <u>Size</u> dia. 61 x L 87 [mm] (Thread length: 500 [mm]) <u>Mass</u> 80 [g] <u>Quantity</u> 2 <u>Reference</u> Astronaut Kanai, 2018
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Attachment-2: Available Items (5/13)

No.13

Intentionally left out

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

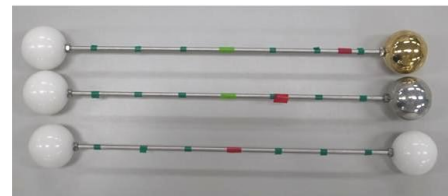
50ml :5

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

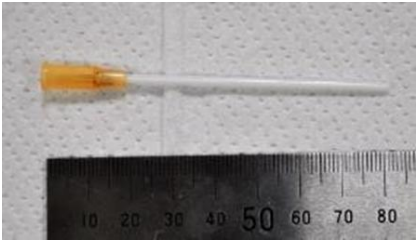
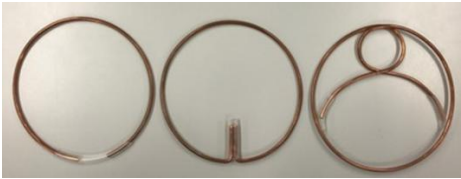
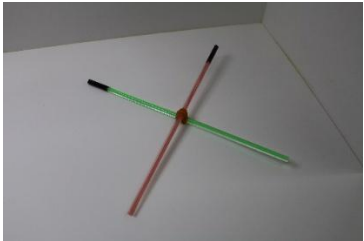
Reference

• [Astronaut Wakata, 2022](#)

Attachment-2: Available Items (6/13)

No.16 Intentionally left out	No.17 Intentionally left out	No.18 Intentionally left out
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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
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Attachment-2: Available Items (8/13)

No.22  Acrylic stick Material Acrylic Size L 250 x W 6 x H 6 [mm] Mass 8.5 [g]	No.23 Intentionally left out	No.24 Intentionally left out
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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 Intentionally left out
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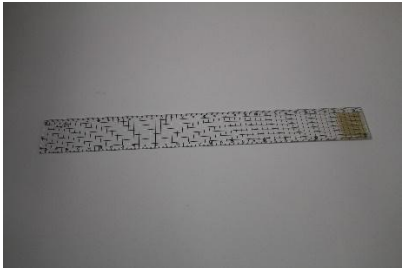
Attachment-2: Available Items (10/13)

No.28 Intentionally left out	No.29  Magnet Material Magnet Size L 50 x W 9 x H 9 [mm] Mass 24 [g] Reference Astronaut Furukawa, 2023	No.30 Intentionally left out
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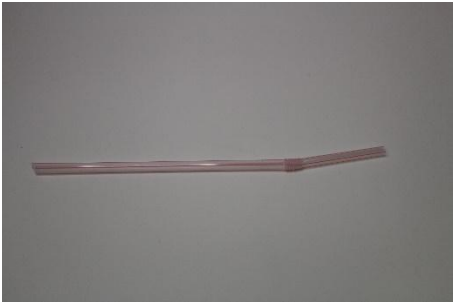
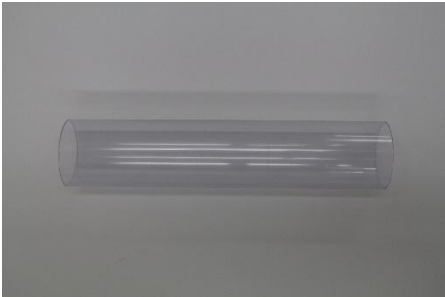
Attachment-2: Available Items (11/13)

No.31 Intentionally left out	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 (The colored water inside can also be used.) Size L 250 x W 130 x H 2 [mm] Mass 237 [g] Reference Astronaut Furukawa, 2023
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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 (The colored water inside can also be used.) Size L 50 x W 50 x H 60 [mm] Mass 91 [g] Reference Astronaut Furukawa, 2023 Astronaut Furukawa, 2023
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Attachment-2: Available Items (13/13)

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

- Sizes may vary.
- Items may be customizable, provided the customization is simple.
- Available Items other than this List.
- Stationery (pen, binder clip, Ziploc bag, etc.)
 - Tools (screwdriver, wrench, tweezers, tape, rubber gloves, etc.)