Bill of materials

×14  ×6  ×2
×2  ×4  ×2
×2  ×2  ×24
×1  ×10  ×4
×1  ×5  ×10

DISCOVERING STEM
Science - Technology - Engineering - Mathematics

MECHANICS
levers & linkages

© Copyright Engino Ltd. All rights reserved.

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 yrs.

Engino Ltd | P.O. Box 72100, 4220 Limassol, Cyprus, European Union
Tel: +357 25821960, Fax: +357 25821961
Email info@engino.com, Website: www.engino.com

8 models printed instructions included

8 models online 3D instructions

16 models to build 8-16+

3D interactive instructions & downloads for your LEGO pieces

Play to invent™
move the wheel to balance the scale!
11

12
STEP A: Tie one end of the string in the top hole and bring it down the ramp.

STEP B: Pass it around the vessel’s pulley and bring it back to the top.

STEP C: Lay the string over the two top pulleys and bring it down on the other side to tie on the hanging hook.

Bring the string down from the top and pass it over the two orange pulleys and back to the top.

Pass the string through the hook’s hole and tie a knot to secure.
Bill of materials

<table>
<thead>
<tr>
<th>Part</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>x15</td>
<td>x4</td>
</tr>
<tr>
<td>x2</td>
<td>x4</td>
</tr>
<tr>
<td>x2</td>
<td>x4</td>
</tr>
<tr>
<td>x17</td>
<td>x8</td>
</tr>
<tr>
<td>x8</td>
<td>x4</td>
</tr>
<tr>
<td>x1</td>
<td>x4</td>
</tr>
<tr>
<td>x4</td>
<td>x3</td>
</tr>
<tr>
<td>x1</td>
<td>x2</td>
</tr>
<tr>
<td>x4</td>
<td>x2</td>
</tr>
<tr>
<td>x1</td>
<td>x4</td>
</tr>
<tr>
<td>x1</td>
<td>x4</td>
</tr>
<tr>
<td>x1</td>
<td>x2</td>
</tr>
<tr>
<td>small</td>
<td>x1</td>
</tr>
<tr>
<td>medium</td>
<td>x2</td>
</tr>
<tr>
<td>large</td>
<td>x1</td>
</tr>
<tr>
<td>x1</td>
<td>x1</td>
</tr>
<tr>
<td>x1</td>
<td>x1</td>
</tr>
</tbody>
</table>

CAUTION: This set contains a string longer than 30cm (12 inches). Keep away from children under the age of 36 months. Danger of strangulation.

CAUTION: Rubber Bands can cause injury from snap-back, breaking, or loss of control. While assembling models shown in instructions, hold rubber band tightly and do not overstretch. Use Rubber Bands only as shown in these instructions. DO NOT USE FRAYED OR TORN RUBBER BANDS. Keep Rubber Bands away from face and eyes. Do not launch in the direction of people, animals, or walls; you could cause injury or damage.

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 yrs.

1 model online 3D instructions
7 models printed instructions included
8 models to build

Engino Ltd | P.O.Box 72100, 4200 Limassol, Cyprus, European Union
Tel: +357 25821960, Fax: +357 25821961
Email info@engino.com, Website: www.engino.com
### Bill of materials

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylindrical</td>
<td>x14</td>
</tr>
<tr>
<td>Octagonal</td>
<td>x8</td>
</tr>
<tr>
<td>Small</td>
<td>x2</td>
</tr>
<tr>
<td>Medium</td>
<td>x2</td>
</tr>
<tr>
<td>Large</td>
<td>x2</td>
</tr>
<tr>
<td>x10</td>
<td>x2</td>
</tr>
<tr>
<td>x5</td>
<td>x11</td>
</tr>
<tr>
<td>x2</td>
<td>x19</td>
</tr>
<tr>
<td>x1</td>
<td>x7</td>
</tr>
<tr>
<td>x8</td>
<td>x4</td>
</tr>
<tr>
<td>x6</td>
<td>x2</td>
</tr>
</tbody>
</table>

### CAUTION
This set contains a string longer than 30 cm (12 inches). Keep away from children under the age of 3 years. Danger of strangulation.

---

**Engino Ltd**
P.O. Box 72100, 4200 Limassol
Cyprus, European Union
Tel: +357 25821960, Fax: +357 25821961
Email info@engino.com, Website: www.engino.com

---

**WARNING:**
CHOKING HAZARD - Small parts.
Not for children under 3 yrs.
Bill of materials

x12
x11
x2

x3
x2
x8

x3
x2
x23

x1
x8
x13

x1
x4
x7

x4
x3
x1

x4
x2
x1

x1
x2
x1

x1
x1

NOTE: A ball is needed for some of the models but not included in the set due to safety requirements.

CAUTION: This set contains a string longer than 30cm (12 inches). Keep away from children under the age of 36 months. Danger of strangulation.

CAUTION: Rubber bands can cause injury from snap-back, breaking, or loss of control. While assembling models shown in instructions, hold rubber band tightly, and do not overstretch. Use Rubber Bands only as shown in these instructions. DO NOT USE FRAYED OR TORN RUBBER BANDS. Keep Rubber Bands away from face and eyes. Do not launch in the direction of people, animals, or walls; you could cause injury or damage.

WARNING: CHOKING HAZARD - Small parts. Not for children under 3 yrs.
ballistic catapult
To load the catapult, pull back the sling and slide a medium rod with a string attached to it through the 3 rings. Pull the string to launch.

CAUTION: Depending on the elasticity of the rubber cord, wrap around the parts accordingly, so not to break the model or the cord.
To wrap rubber cord, pull back the dragster and then release.
galileo's experiment inclined plane