



世界青少年机器人奥林匹克竞赛

机器人任务赛

2022 赛季

高中组 细则



机器人伙伴  
MY ROBOT MY FRIEND

陪护机器人

WRO 国际总决赛官方规则。版本：2022 年 1 月 15 日

## 目录

|                       |    |
|-----------------------|----|
| 第一章 - 比赛介绍.....       | 2  |
| 1. 介绍 .....           | 2  |
| 2. 比赛场地 .....         | 3  |
| 3. 比赛元素、位置及随机设置 ..... | 4  |
| 4. 机器人任务 .....        | 8  |
| 4.1 洗衣服.....          | 8  |
| 4.2 信息：标记块.....       | 8  |
| 4.3 把水送到房间去.....      | 8  |
| 4.4 玩游戏.....          | 8  |
| 4.5 停靠机器人.....        | 8  |
| 4.6 获得加分.....         | 9  |
| 5. 计分 .....           | 10 |
| 6. 本土赛、区域赛及国际赛 .....  | 16 |
| 第二章 - 比赛元素的搭建.....    | 17 |

## 第一章 - 比赛介绍

### 1. 介绍

在日常生活中，机器人可以为人类提供很多方面的支持，提升人类的生活品质。比如，机器人可以成为导游，用富有创造性的方式带我们参观博物馆。或者在繁重的工作中提供支持。

在高中组的场地上，机器人扮演着医院护理和运输机器人的角色，需要衣服送到医院的洗衣店，把水送到不同的房间，和病人一起玩儿。与此同时，机器人在穿过医院走廊时必须注意护士和访客。

## 2. 比赛场地

下图展示了比赛场地及场地上的各个区域。



一些区域通过数字来进行标记。观察场地并了解具体数字代表的是什么区域。每个房间，用 5 个数字标记了 5 种区域：

- 1: 洗衣房的位置
- 2: 游戏球的位置
- 3: 游戏网的位置
- 4: 桌子的位置
- 5: 标记块的位置

如赛台比场地纸大，则将场地纸居中放置。

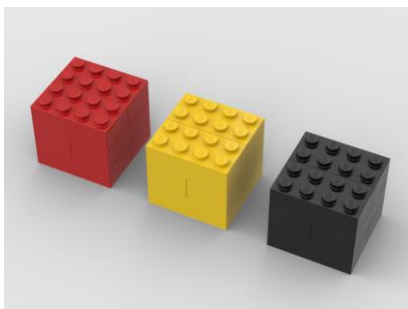
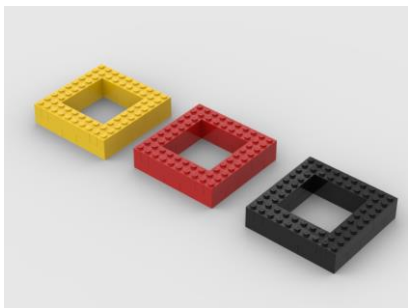
更多关于场地及场地纸的规则，请查看 WRO 机器人任务赛总则规则 6.

### 3. 比赛元素、位置及随机设置

#### 脏衣服&洗衣机

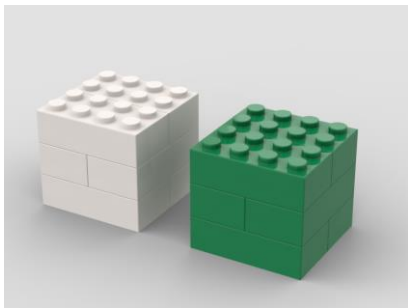
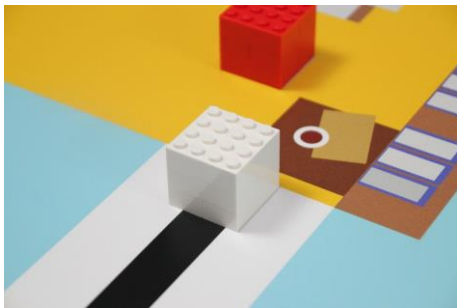
有3个代表脏衣服的积木块（一个黑色，一个红色和一个黄色）以及3个洗衣机（一个黑色，一个红色和一个黄色）。这些物体的放置规则为：

- 每轮比赛开始前，3个脏衣服将被随机放在各个房间中用数字1标记的四个位置 上
- 每轮比赛开始前，3个洗衣机将被随机放在洗衣区里面的灰色方块上。

|                                                                                                |                                                                                                             |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
|  <p>脏衣服</p>   |  <p>蓝色房间里的黑色脏衣服</p>       |
|  <p>洗衣机</p> |  <p>一种可能出现的洗衣机的起始配置</p> |

#### 标记块

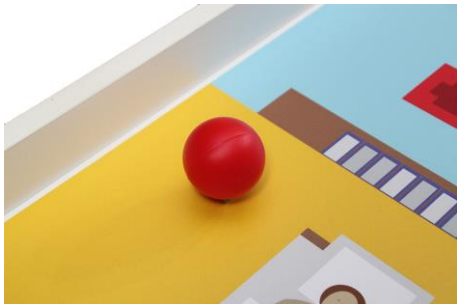
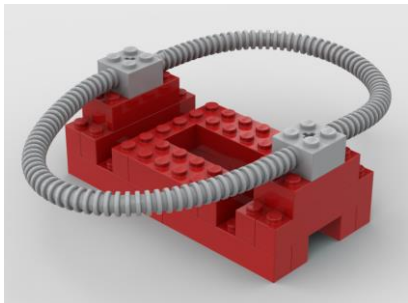
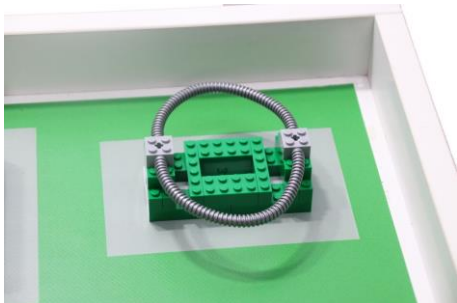
场地上有 4 个标记块（2 个白色和 2 个绿色）。每轮开始之前，标记块会随机放在房间前面用 5 标记的区域里。标记块是用于决定每个房间需要完成的任务（详见比赛描述。）

|                                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|

|     |            |
|-----|------------|
| 标记块 | 黄色房间前面的标记块 |
|-----|------------|

## 游戏球&游戏网

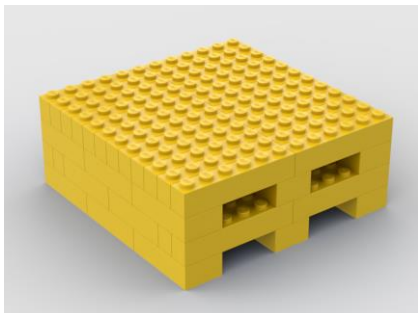
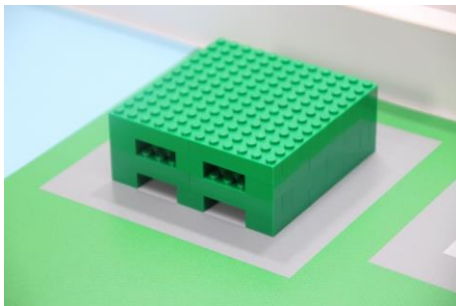
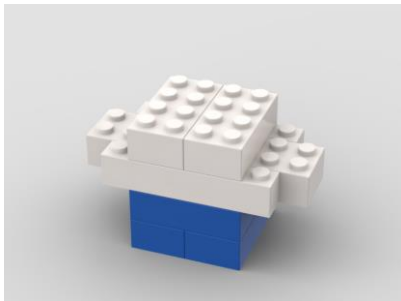
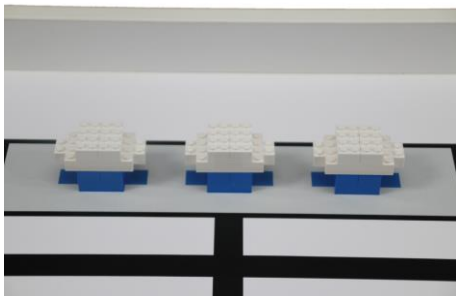
有两种物体是用于做游戏的，分别是游戏球和游戏网。游戏网的颜色有红色、黄色、蓝色和绿色，分别放在颜色对应的房间里。有2个蓝色的球和2个红色的球被放4个房间里，每个房间放置一个球，放置位置在2标记的区域里，底部是一个2X2的乐高板，其中黄色房间放置蓝色球，绿色房间放置红色球，红色与蓝色房间放置对应颜色球。游戏网被放在颜色相同的房间里用3标记的区域里。

|                                                                                                |                                                                                                         |
|------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|  <p>球</p>     |  <p>黄色房间的球</p>        |
|  <p>游戏网</p> |  <p>绿色房间里的绿色游戏网</p> |
| <p>请注意，在每一轮比赛中，所有房间都必须放置球、网和桌子，即使并非所有元素都在该轮中使用。</p>                                            |                                                                                                         |

## 桌子&水

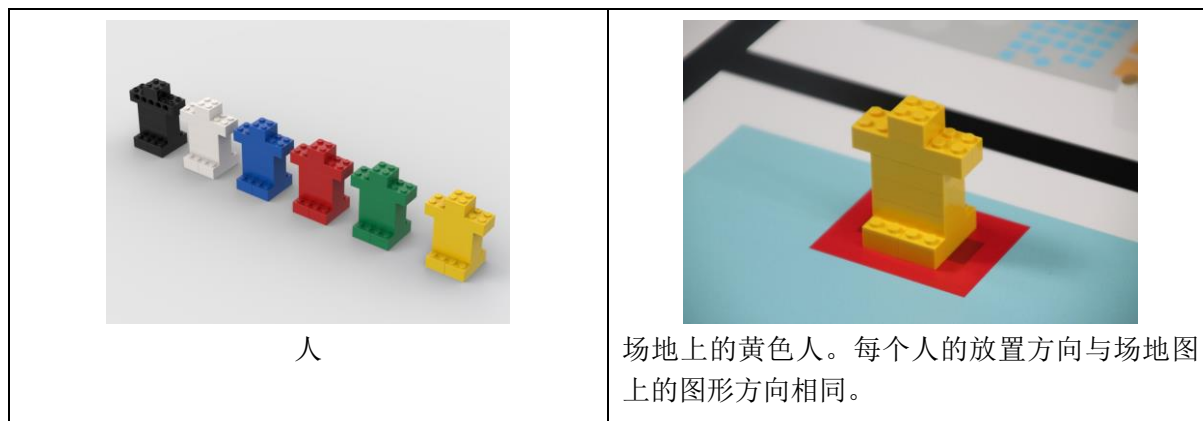
场地上有4个桌子（分别是红色、蓝色、绿色和黄色）。每个桌子被分别放在颜色相同的房间里用4标记的位置上。

另外，场地上还有3瓶水，被放在设备区的预定位置。

|                                                                                              |                                                                                                                        |
|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  <p>桌子</p>  |  <p>绿色房间的绿色桌子</p>                    |
|  <p>水瓶</p> |  <p>设备区的水，每瓶水的放置方向如场地图上的图形方向相同。</p> |

## 人

场地上有6个人（分别是黄色、绿色、红色、蓝色、白色和黑色）。每轮比赛开始前，6个人被随机放在8个红色方块上。



## 随机设置

每轮比赛开始前，都要对下述比赛元素进行随机设置：

- 在标记数字 1 的位置上随机设置脏衣服
- 在洗衣区的三个方块上随机设置洗衣机
- 在标记数字 5 的区域随机设置标记块
- 在 8 个红色方块上随机设置 8 个人

所有其他的物体（水、桌子、游戏网及游戏球）都需要在比赛开始前放在赛台上，但不需要随机设置。



## 4. 机器人任务

为了便于理解，任务将分段解释。

队伍可以决定完成任务的顺序。

### 4.1 洗衣服

服务机器人的任务之一是帮助人类运输材料。在医院里，机器人可以将每个病房的脏衣服运送到洗衣房。这也是高中组场地上的任务之一。机器人应从不同的房间里收集 3 个代表脏衣服的积木块然后把它们运到洗衣区。如果脏衣服被放在颜色相同的洗衣机内，则可以获得最高分（比如红色的脏衣服放在红色的洗衣机里）。

洗衣机不需要停留在它们的起始区域上（即机器人为了把脏衣服放在洗衣机里可以稍微移动洗衣机）。但是，最后洗衣机必须完全保留在洗衣区里面。

### 4.2 信息：标记块

对于接下来的两个任务，重要的是考虑在比赛开始前标记块在每个房间前面放置的位置（一旦扫描后允许移动标记块）。标记块的位置决定了以下情况：

- **房间前面的白色标记块：**在这个房间里，应该在桌子上放一个水瓶。请注意，如果机器人将水带到错误的房间，将被扣分。
- **房间前面的绿色标记块：**在这个房间里，机器人应该与这个房间的病人玩游戏。只有当机器人在正确的房间里玩游戏时，才会获得分数。

### 4.3 把水送到房间去

在医院里，每个病房里的每个病人都应该有足够的水喝。因此，每天给不同的房间送水是陪护机器人的任务之一。但是机器人应该注意，只需要把水带到那些需要新水的房间。

机器人应从设备区取出水瓶，并将其带到正确的房间（前面标有白色方块的房间）。如果水瓶在正确的房间内，将获得分数；如果水瓶正确地站在桌子上，将获得最高分数。每个房间最多有一个水瓶，设备区有一个备用水瓶。

请注意，现场有 3 个水瓶，机器人只需要 2 个水瓶。第三瓶只是一个备用。

### 4.4 玩游戏

服务机器人的另一项任务可能是与医院里的病人玩游戏。但当然，没有足够的机器人每天和每个人一起玩游戏。这就是为什么机器人只能在标有绿色标记块的房间里玩游戏的原因。

要在正确的房间（前面标有绿色方块的房间）内玩游戏，机器人应将一个球（球的颜色不重要）举到游戏网内。如果球仅接触球网而未接触比赛场地，则将获得满分。

### 4.5 停靠机器人



最后，机器人应返回起始&结束区。当机器人返回开起始&结束区并停止时，任务即为完成，机器人的底盘应完全（俯视图）位于起始&结束区内（允许连接线在起始&结束区之外）。

#### 4.6 获得加分

当机器人在医院里穿行时，要注意周围的一切是很重要的。门、楼梯、角落，当然还有我们——人类。因此，机器人应注意避开场地上的人。

如果不移动或损坏赛场上的人物，将获得额外加分。此外，如果未移动或损坏房间内的游戏网和游戏桌，也将获得额外加分。

## 5. 计分

### 计分定义

“完全”代表比赛元素只接触相应区域（不包括黑线）

| 任务                                                  | 每个 | 合计  |
|-----------------------------------------------------|----|-----|
| <b>洗衣服</b>                                          |    |     |
| 脏衣服完全在洗衣区，但没有在洗衣机的里面或上面                             | 6  | 18  |
| 脏衣服在颜色不相同的洗衣机里面，并且<br>洗衣机仍完全在洗衣区里面                  | 10 | 30  |
| 脏衣服在颜色相同的洗衣机里面，并且<br>洗衣机仍完全在洗衣区里面                   | 16 | 48  |
| <b>把水送到正确的房间（房间前面有白色的标记块，每个房间最多放一个）</b>             |    |     |
| 水瓶完全在正确的房间里，但没有在桌子上                                 | 6  | 12  |
| 水瓶部分或完全在标记块标记的不正确的房间里                               | -6 | -12 |
| 水瓶在正确的房间里的桌子上， <b>但没有保持直立</b> ，没有被损坏，并且桌子仍然在深灰色的区域里 | 10 | 20  |
| 水瓶在正确的房间里的桌子上， <b>并且保持直立</b> ，没有被损坏，并且桌子仍然在深灰色的区域里  | 14 | 28  |
| <b>玩游戏（房间前面有绿色的标记块）</b>                             |    |     |
| 球在游戏网里面（每个网里只能有一个球得分）                               | 13 | 26  |
| <b>停靠机器人</b>                                        |    |     |
| 机器人完全停止在起始&结束区内<br>(仅在获得其他任务分时方可获得该项分数，不含加分)        |    | 13  |
| <b>加分</b>                                           |    |     |
| 没有被移动或损坏的人物                                         | 4  | 24  |
| 没有被移动或损坏的游戏网                                        | 2  | 8   |
| 没有被移动或损坏的桌子                                         | 2  | 8   |
| <b>最高分</b>                                          |    | 155 |

## 计分表

队伍名称: \_\_\_\_\_

轮: \_\_\_\_\_

| 任务                                                  | 每个 | 合计  | # | 合计 |
|-----------------------------------------------------|----|-----|---|----|
| <b>洗衣服</b>                                          |    |     |   |    |
| 脏衣服完全在洗衣区，但没有在洗衣机的里面或上面                             | 6  | 18  |   |    |
| 脏衣服在颜色不相同的洗衣机里面，并且洗衣机仍完全在洗衣区里面                      | 10 | 30  |   |    |
| 脏衣服在颜色相同的洗衣机里面，并且洗衣机仍完全在洗衣区里面                       | 16 | 48  |   |    |
| <b>把水送到正确的房间（房间前面有白色的标记块，每个房间最多放一个）</b>             |    |     |   |    |
| 水瓶完全在正确的房间里，但没有在桌子上                                 | 6  | 12  |   |    |
| 水瓶部分或完全在标记块标记的不正确的房间里                               | -6 | -12 |   |    |
| 水瓶在正确的房间里的桌子上， <b>但没有保持直立</b> ，没有被损坏，并且桌子仍然在深灰色的区域里 | 10 | 20  |   |    |
| 水瓶在正确的房间里的桌子上， <b>并且保持直立</b> ，没有被损坏，并且桌子仍然在深灰色的区域里  | 14 | 28  |   |    |
| <b>玩游戏（房间前面有绿色的标记块）</b>                             |    |     |   |    |
| 球在游戏网里面（每个网里只能有一个球得分）                               | 13 | 26  |   |    |
| <b>停靠机器人</b>                                        |    |     |   |    |
| 机器人完全停止在起始&结束区内<br>(仅在获得其他任务分时方可获得该项分数，不含加分)        |    | 13  |   |    |
| <b>加分</b>                                           |    |     |   |    |
| 没有被移动或损坏的人物                                         | 4  | 24  |   |    |
| 没有被移动或损坏的游戏网                                        | 2  | 8   |   |    |
| 没有被移动或损坏的桌子                                         | 2  | 8   |   |    |
| <b>最高分</b>                                          |    | 155 |   |    |
| <b>惊喜规则</b>                                         |    |     |   |    |
| <b>本轮最高分</b>                                        |    |     |   |    |
| <b>本轮用时</b>                                         |    |     |   |    |

队伍签名 \_\_\_\_\_

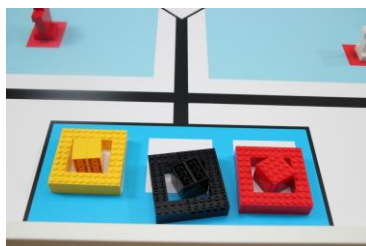
裁判签名 \_\_\_\_\_

## 规则解读

脏衣服完全在洗衣区，但没有在洗衣机的里面或在洗衣机的上面 → 每个6分

脏衣服在颜色不相同的洗衣机里面，并且洗衣机仍完全在洗衣区里面 → 每个10分

脏衣服在颜色相同的洗衣机里面，并且洗衣机仍完全在洗衣区里面 → 每个16分



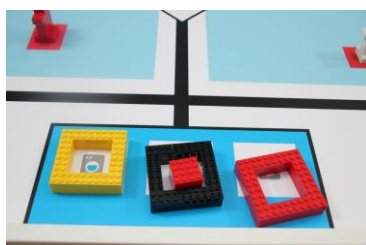
48 分 (3x16 分)，每个在正确的洗衣机 里面的脏衣服，洗衣机可以被移动但需要仍在洗衣区里面才可以



0 分，脏衣服没有完全进入洗衣区



6 分，脏衣服在洗衣区但没有在洗衣机 里面（洗衣机是否在洗衣区里面都可以得分）



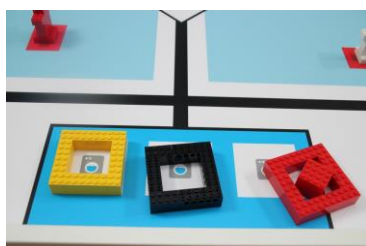
10 分，脏衣服在洗衣区内但没有在颜色相同的洗衣机里面



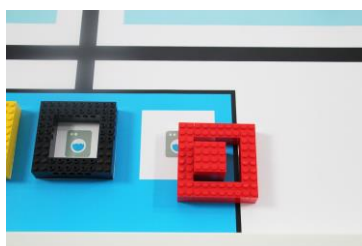
6 分，脏衣服在洗衣区里面，但没有在洗衣机里面



16 分，脏衣服在颜色相同的洗衣机里面

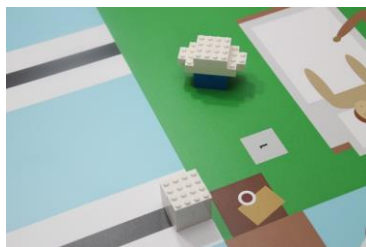


0 分，洗衣机及脏衣服都没有在洗衣区里面。

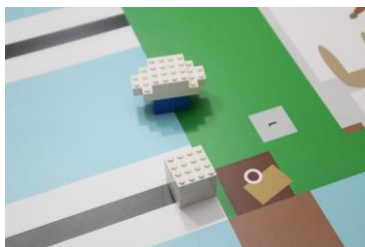


0 分，虽然脏衣服 在洗衣区内，但是洗衣机在洗衣之外

水瓶完全在正确的房间里，但没有在桌子上→ 每个6 分

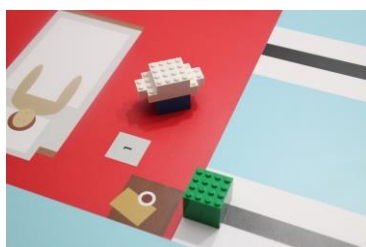


6 分，在有白色标记块的房间里

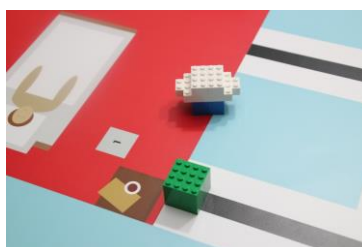


0 分，没有完全在房间里

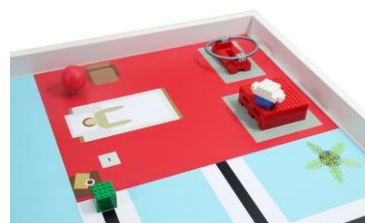
水瓶部分或完全在标记块标记的不正确的房间里→ 每个 - 6 分



-6 分，水瓶在错误的房间里  
(标记绿色标记块的房间)

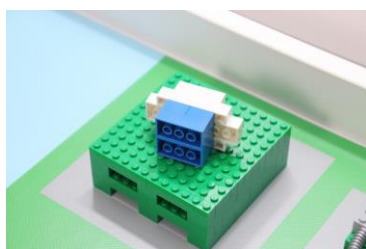


-6 分，水瓶的一部分在错误的房间里

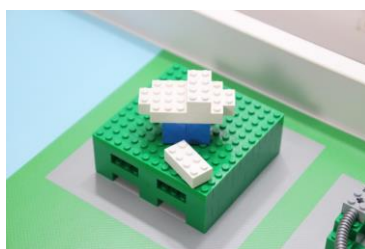


-6 分，水瓶在错误的房间里的桌子上

水瓶在正确的房间里的桌子上，但没有保持直立，没有被损坏，并且桌子仍然在深灰色的区域里→ 每个10 分



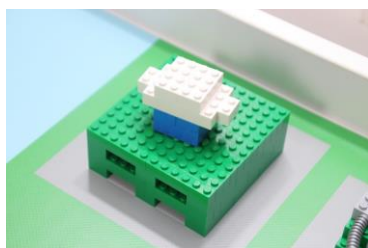
10 分



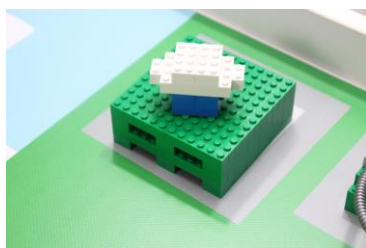
0 分

请看下面放在正确桌子的位置图片，同样也适用在这里。

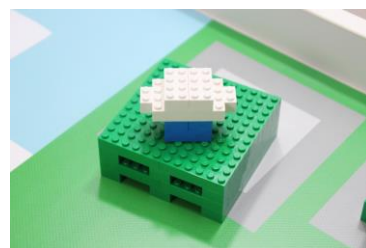
水瓶在正确的房间里的桌子上，并且保持直立，没有被损坏，并且桌子仍然在深灰色的区域里 → 每个14 分



14 分

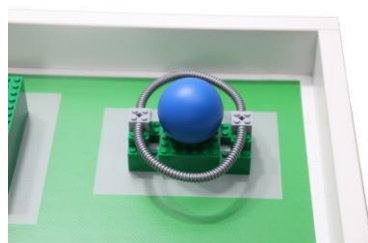


14 分，桌子被移动但仍在灰色区域内



0 分，桌子被移出灰色区域

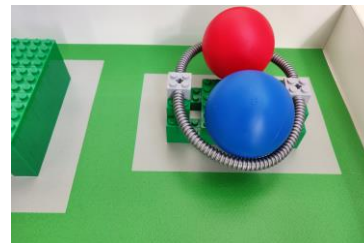
球在游戏网里面（每个网里只能有一个球得分） → 每个13 分



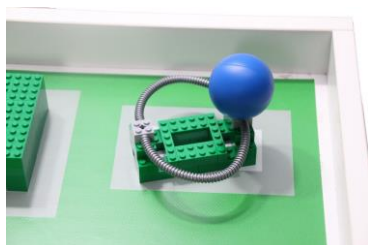
13 分



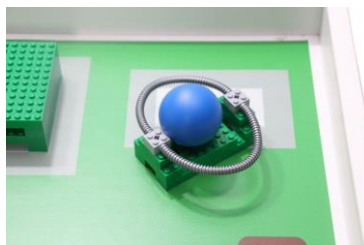
13 分，游戏网移动了但仍在灰色区域里



13 分，每个网里只有一个球能得分



0 分，球没有在游戏网里面

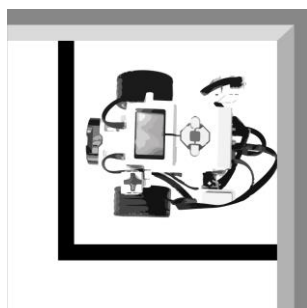


0 分，游戏网被移出灰色区域外



### 机器人完全停止在起始&结束区内

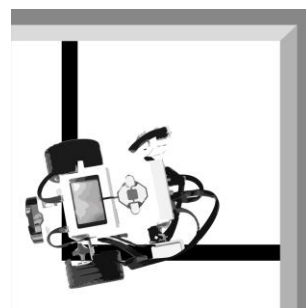
(仅在获得其他任务分时方可获得该项分数，不含加分) → 13 分



机器人的投影完全在起始&结束区内



机器人的投影完全在起始&结束区内，但连接线不在也可以得分。

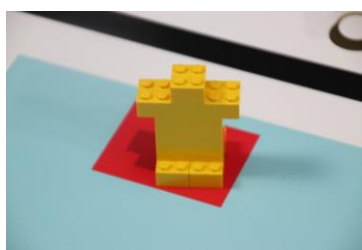


如果机器人投影没有完全在起始&结束区内，不能得分

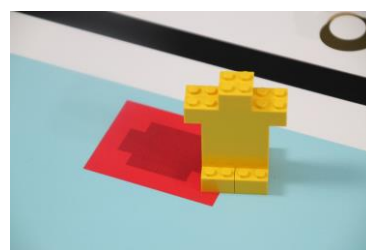
### 没有被移动或损坏的人物 → 每个4分



4 分



4分，仅在区域里面移动



0 分，移出了区域



0 分，损坏

游戏网及桌子的得分也适用上图所示的规则。



## 6. 本土赛、区域赛及国际赛

WRO 比赛在全球 90 多个国家举办，每个国家的队伍都期待不同难度的任务。本文件中介绍的任务将用 WRO 国际赛，是拥有最佳方案的队伍将参与的最终赛事，所以这些规则更具挑战性。

WRO 认为所有队员都能应该在比赛中获得最佳的体验。经验较少的队伍也可以得高分，这样才能建立他们的自信心，从而更好运用科学技能，对未来的教育产生重要的影响。

所以 WRO 协会建议每个国家的组委会可以适当调整规则，降低本土比赛、区域赛甚至全国赛的难度，从而让所有的队员有更积极的体验。各国组委会可以根据各自的情况自行决定。以下是我们提出一些降低难度的想法。

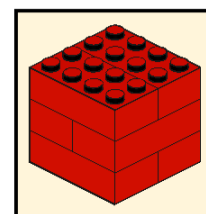
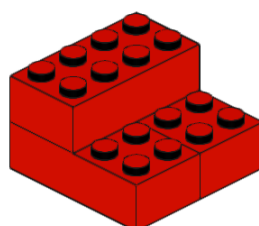
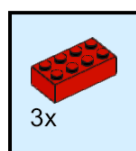
### 简化建议：

- 没有洗衣机的随机设置
- 没有标记块的随机设置
- 没有人物的随机设置或场地上少放几个人的元素
- 比赛开始前可以把水瓶放在机器人上

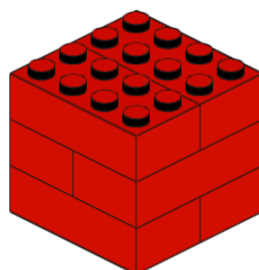
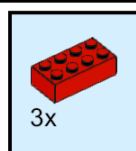
## 第二章 - 比赛元素的搭建

脏衣服 (每个颜色 1 个, 一共 3 个)

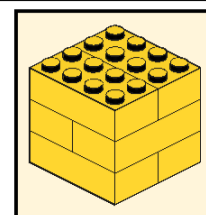
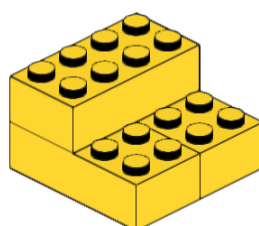
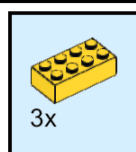
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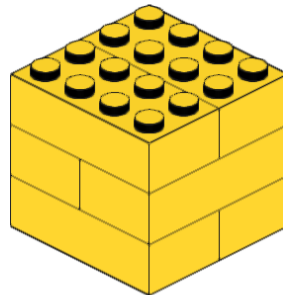
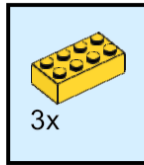
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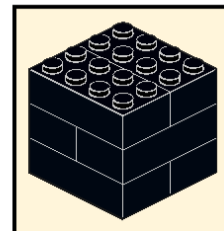
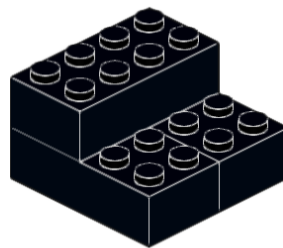
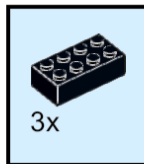
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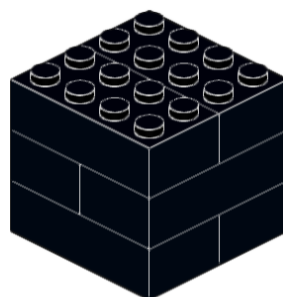
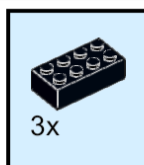
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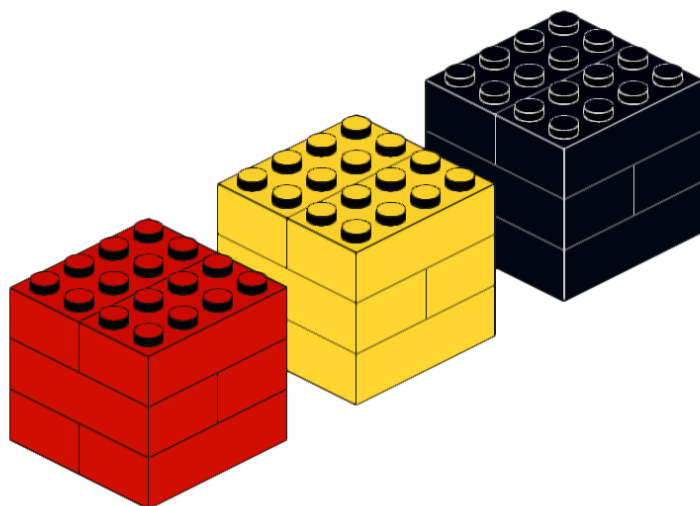
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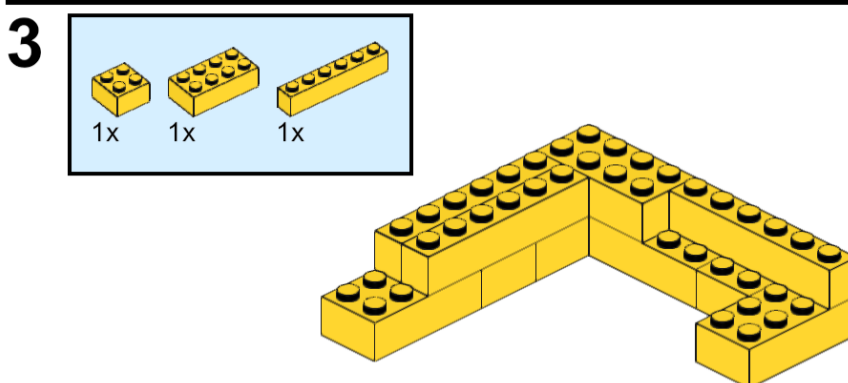
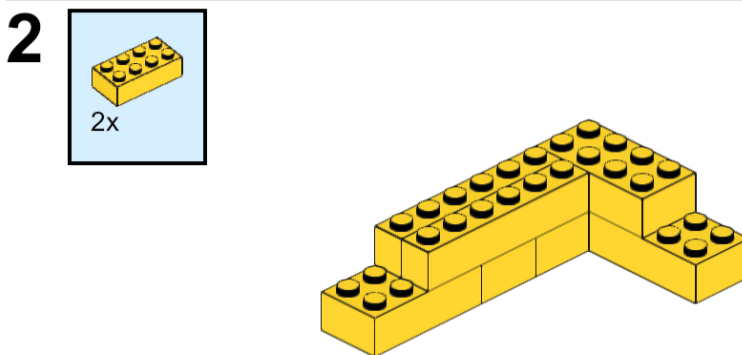
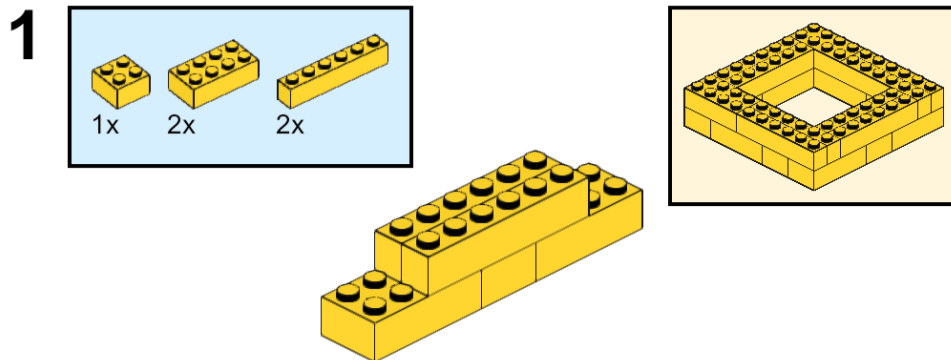
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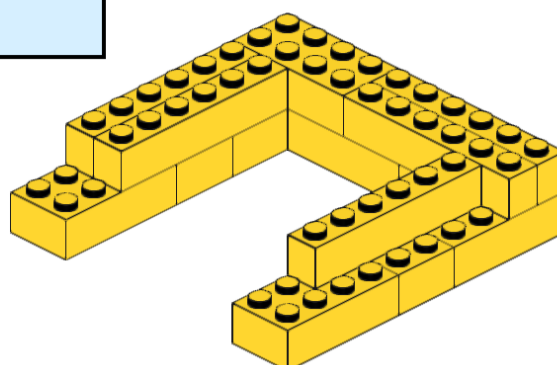
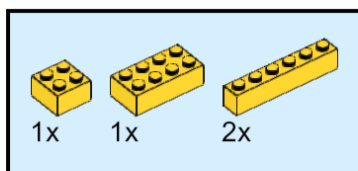
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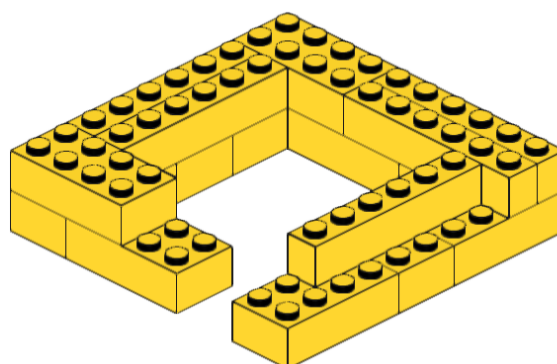
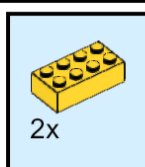
洗衣机 (每个颜色 1 个, 一共 3 个)



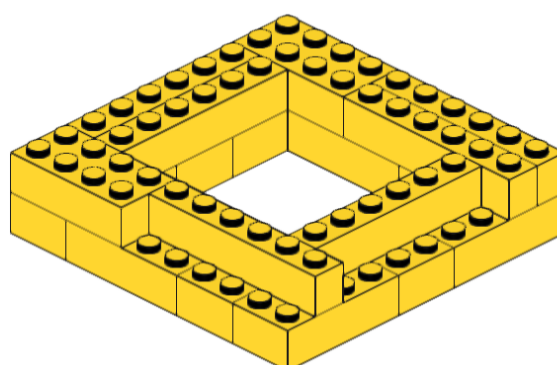
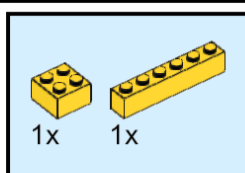
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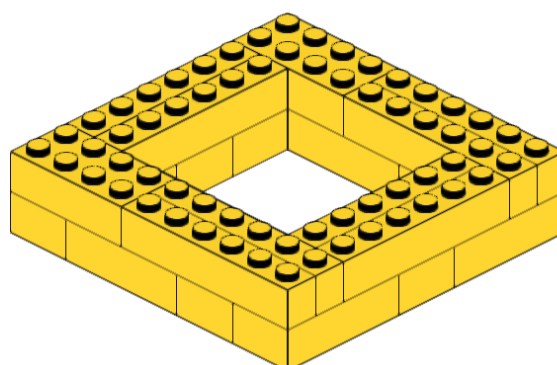
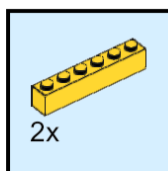
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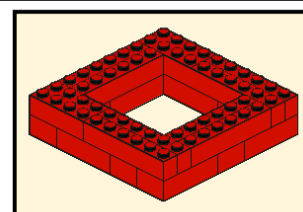
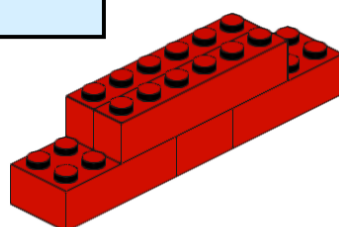
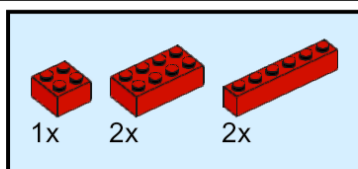
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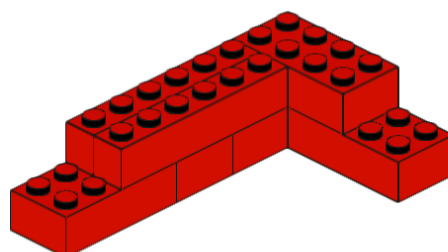
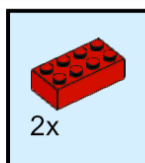
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8

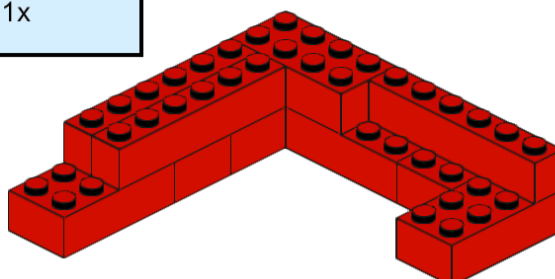
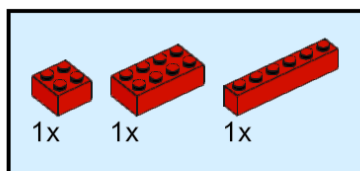


9

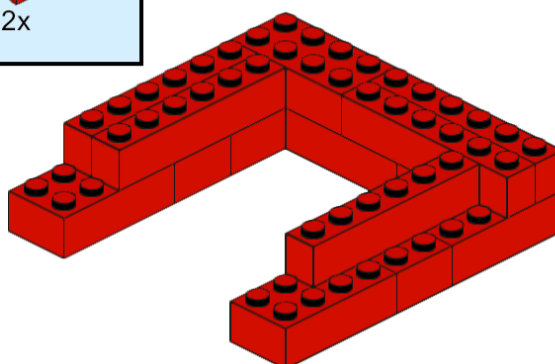
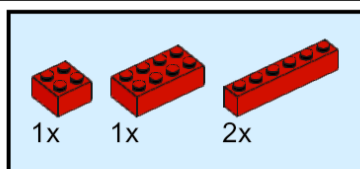




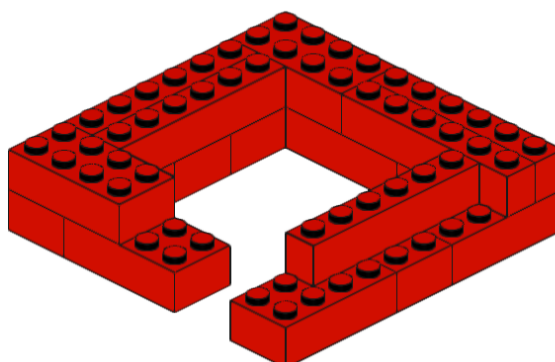
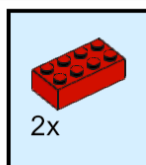
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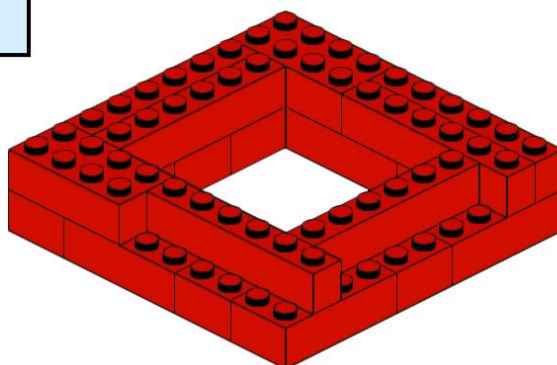
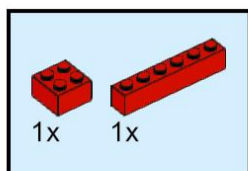
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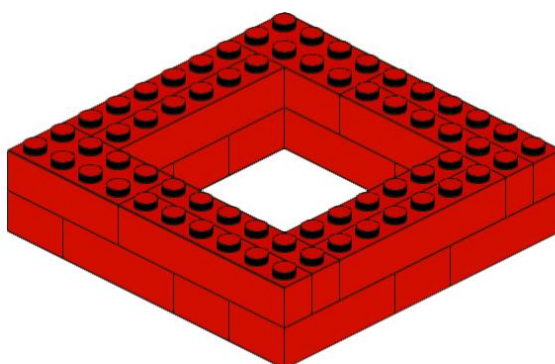
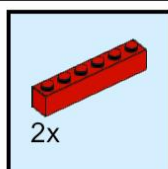
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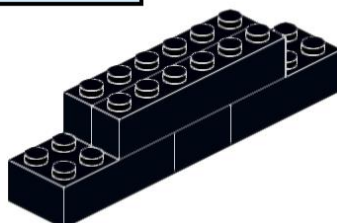
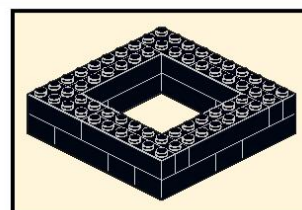
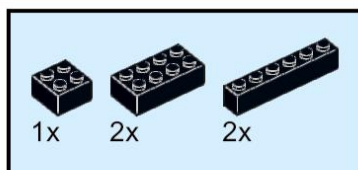
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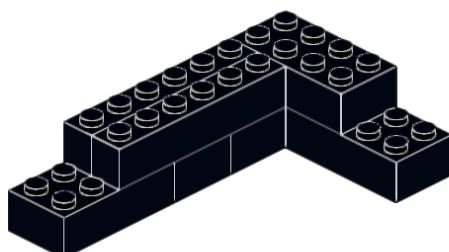
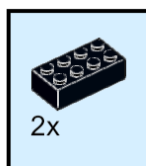
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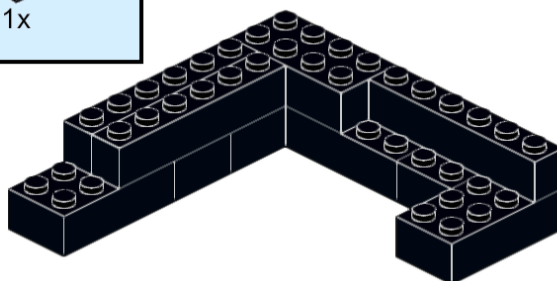
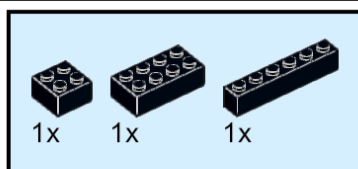
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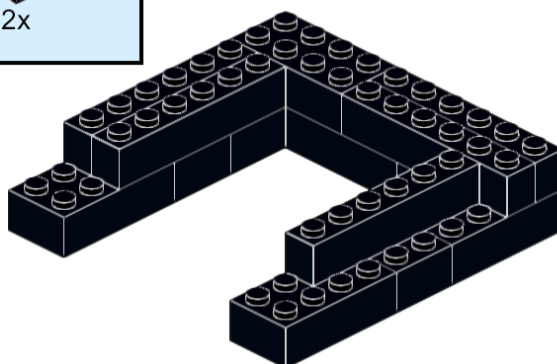
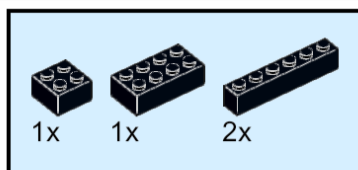
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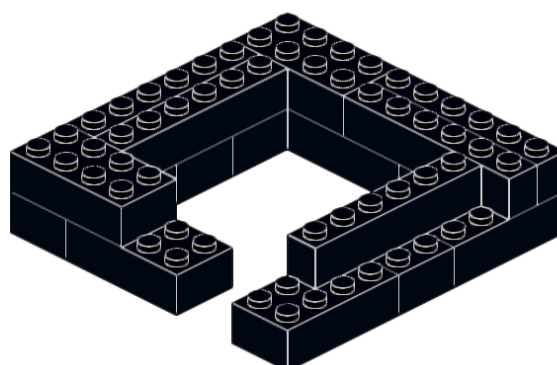
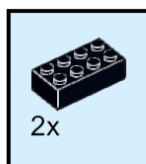
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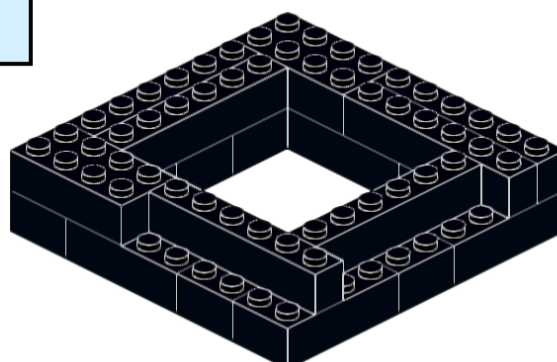
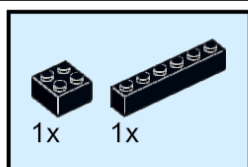
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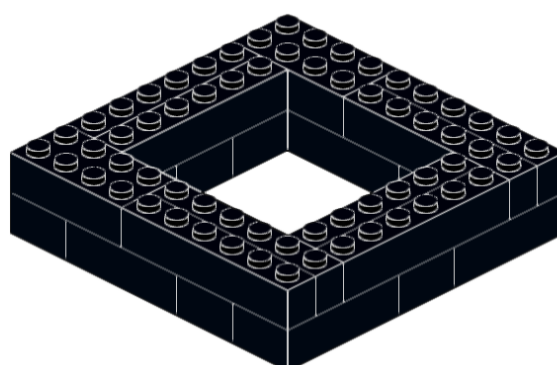
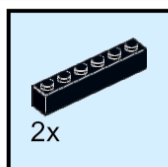
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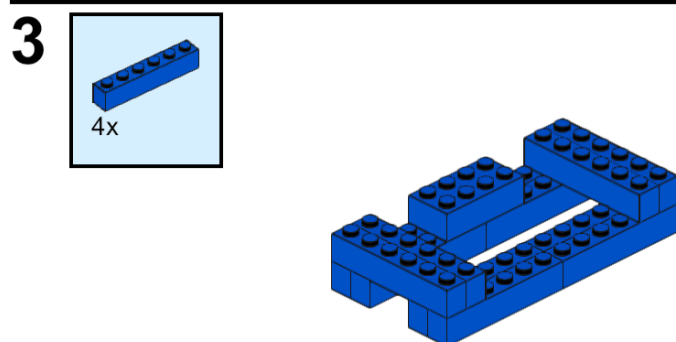
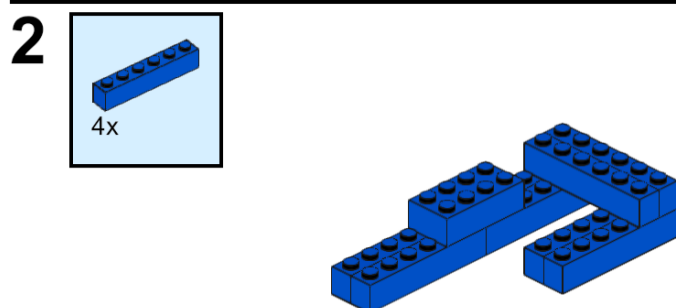
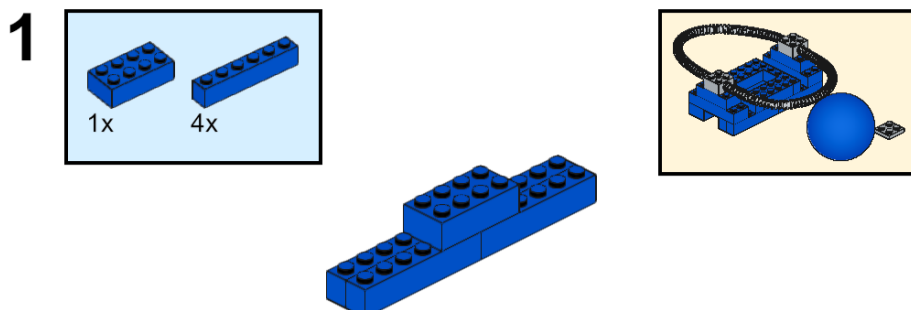
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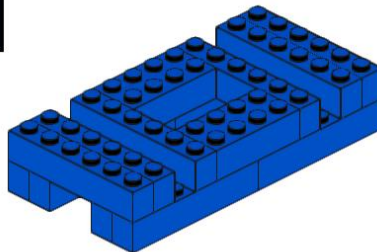
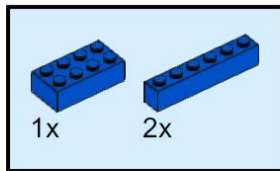
21



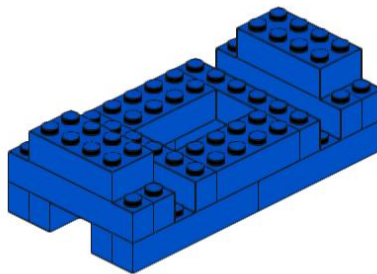
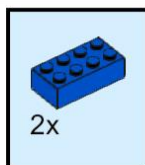
游戏网 & 游戏球（每个颜色 1 个，一共 4 个）



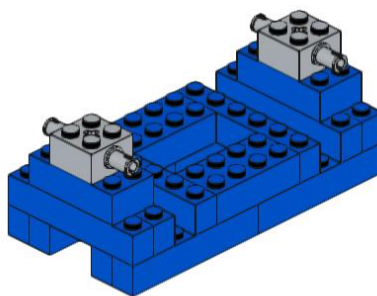
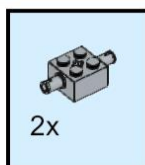
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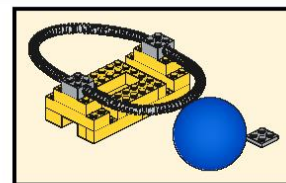
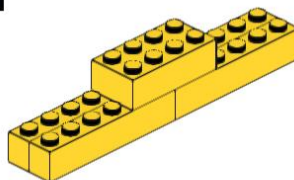
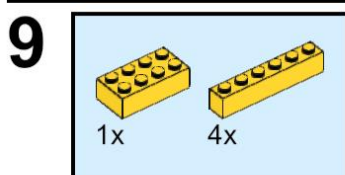
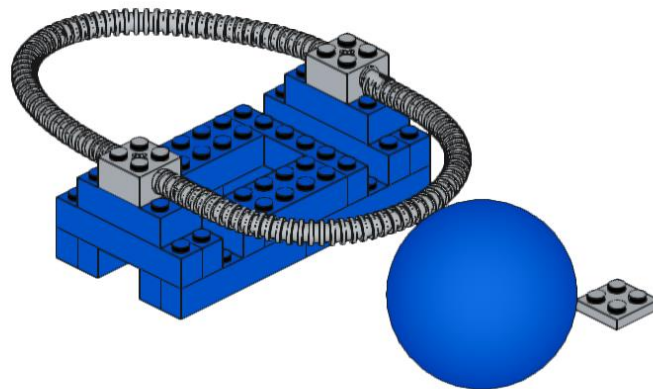
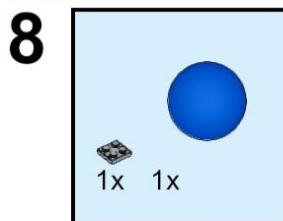
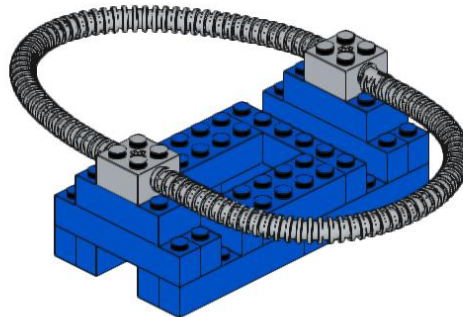
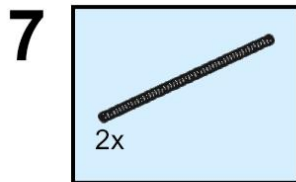


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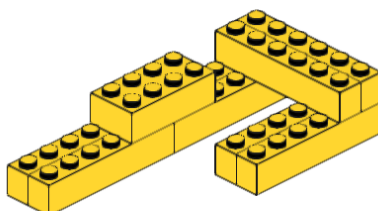
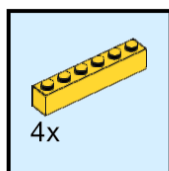


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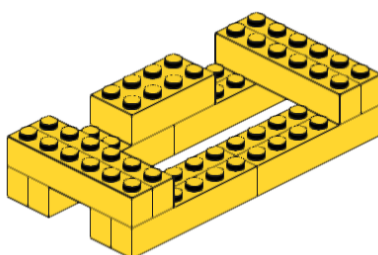
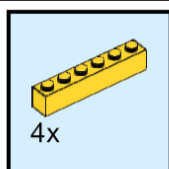




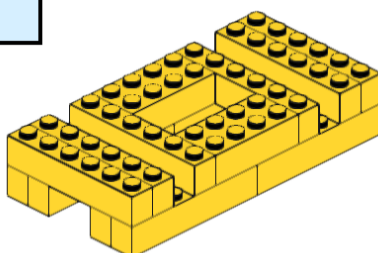
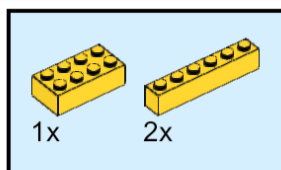
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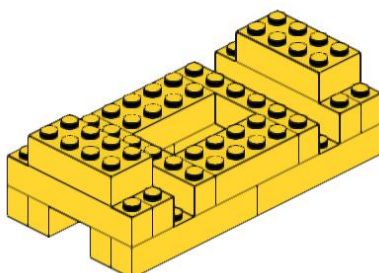
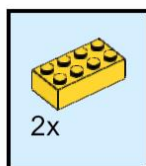


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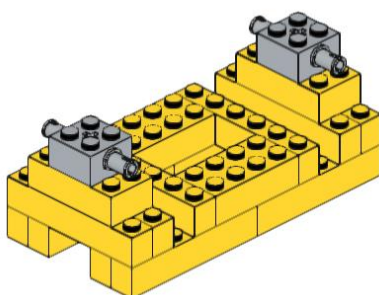
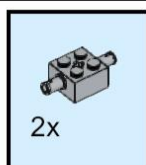




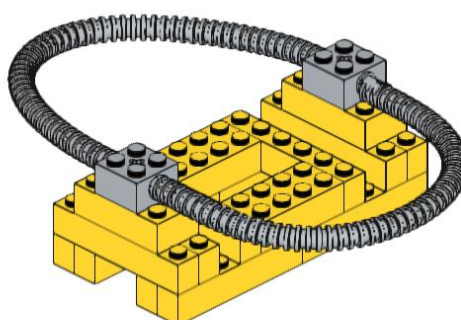
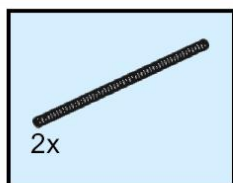
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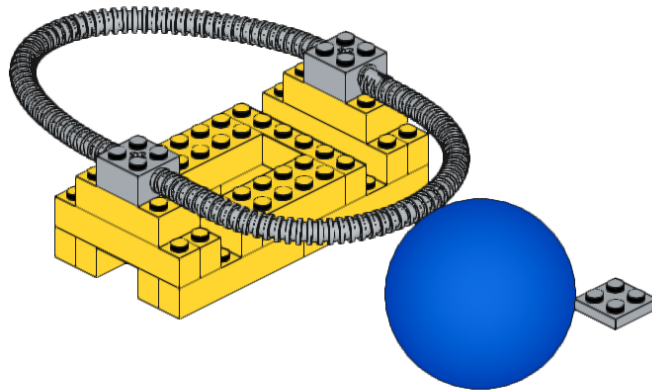
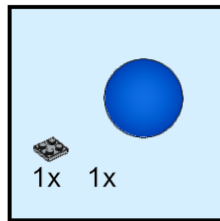
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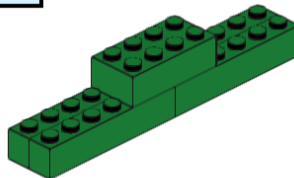
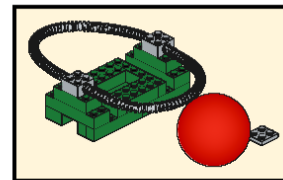
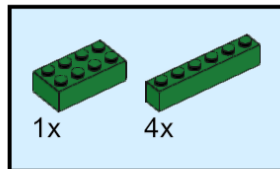
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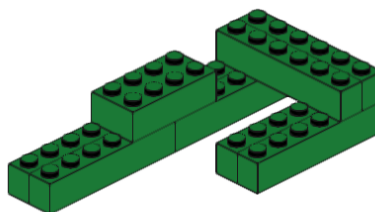
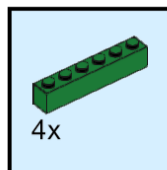
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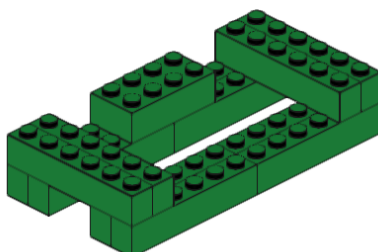
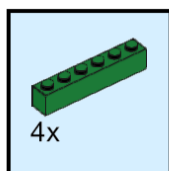
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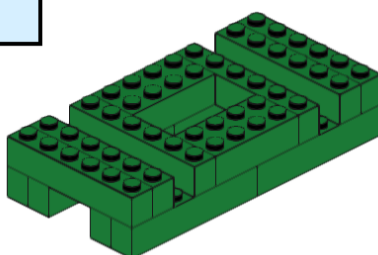
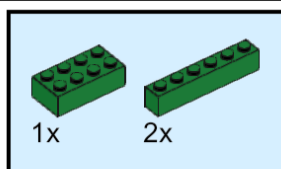
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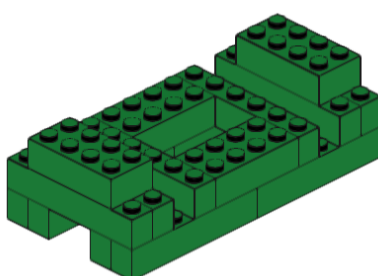
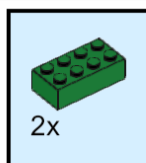
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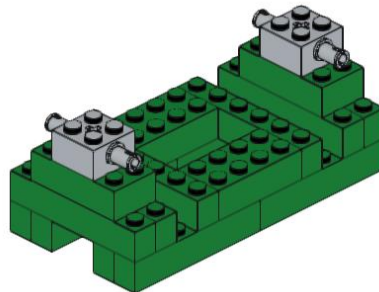
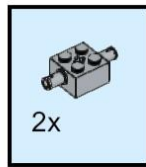
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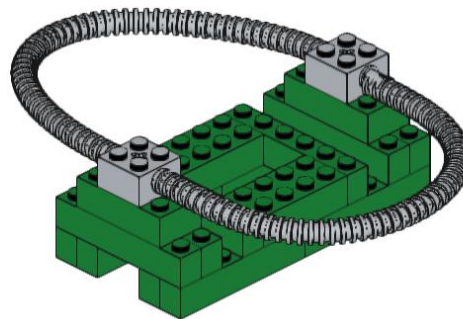
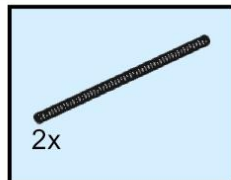
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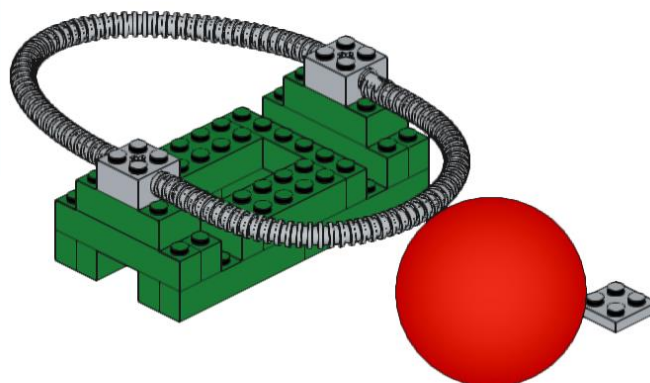
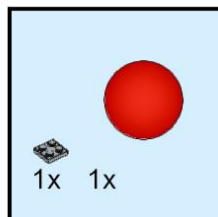
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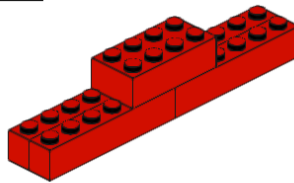
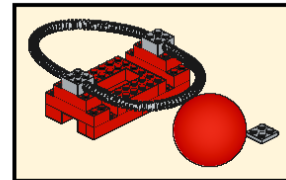
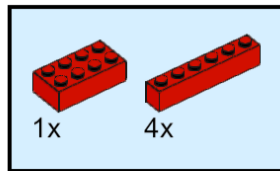
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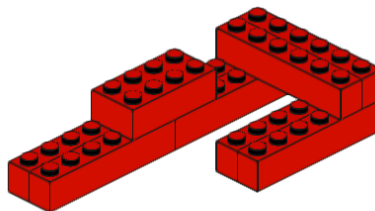
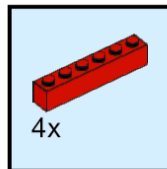
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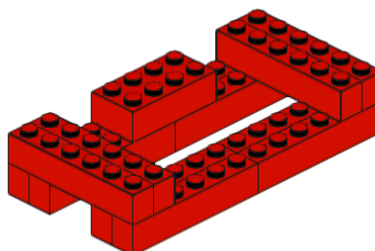
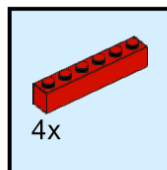
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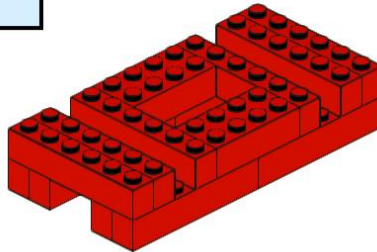
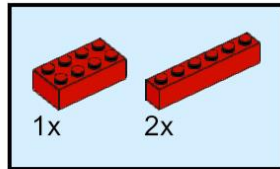
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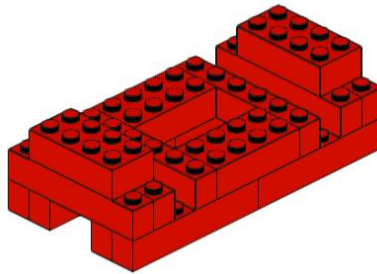
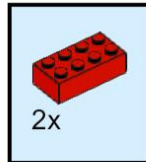
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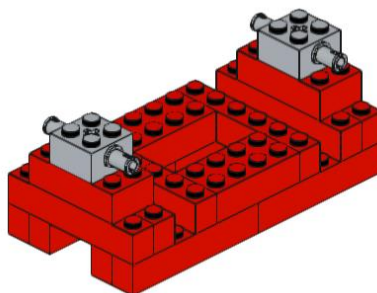
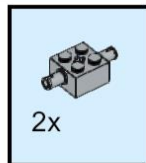
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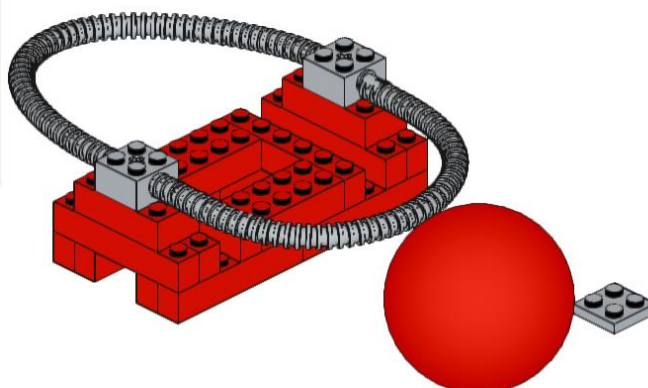
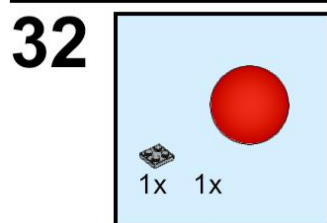
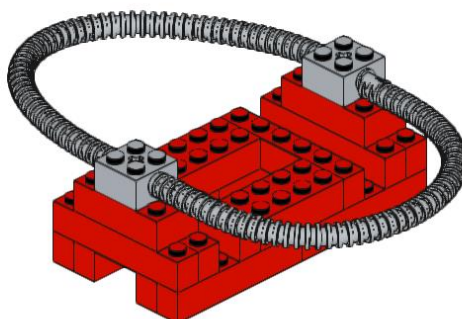
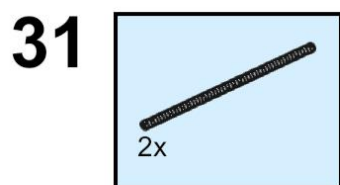


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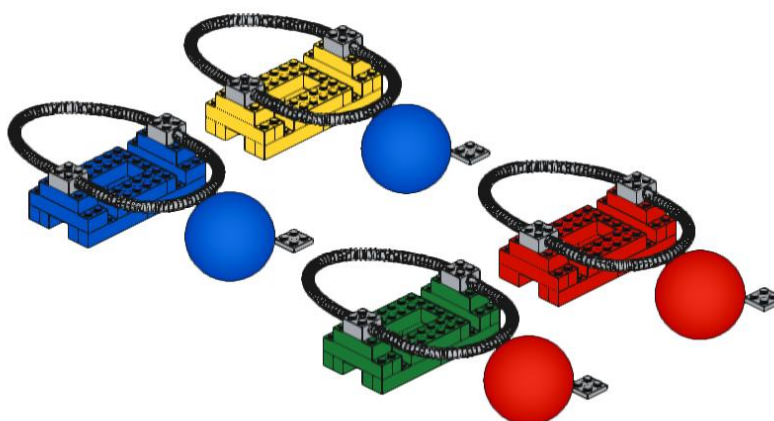


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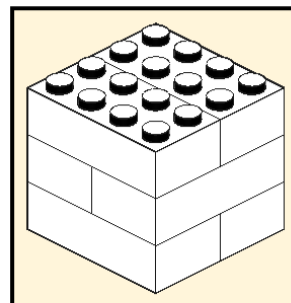
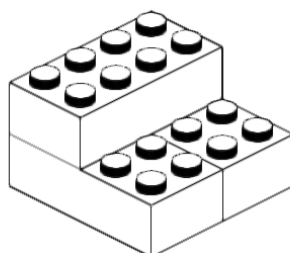
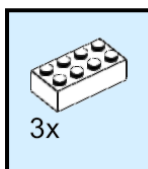


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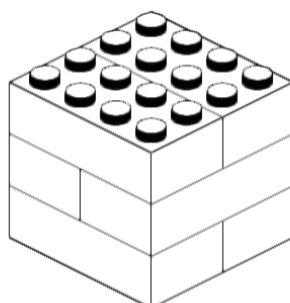
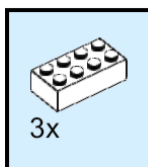


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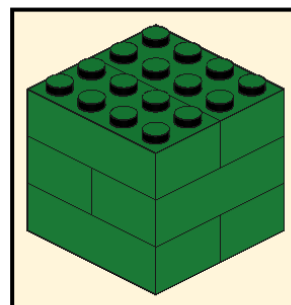
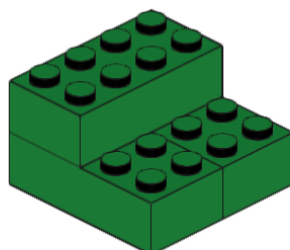
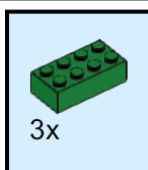
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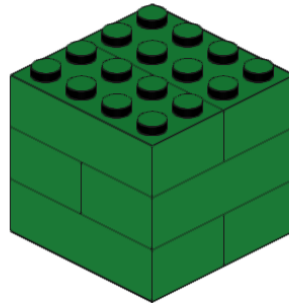
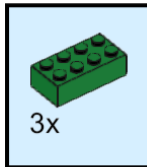


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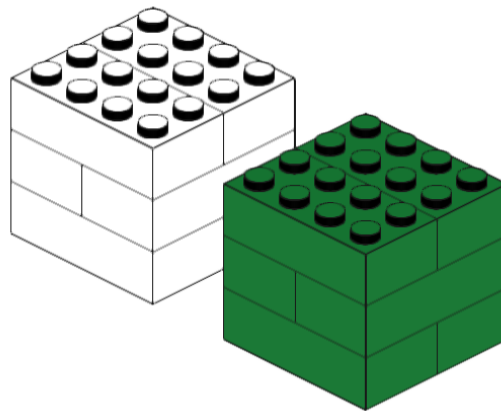


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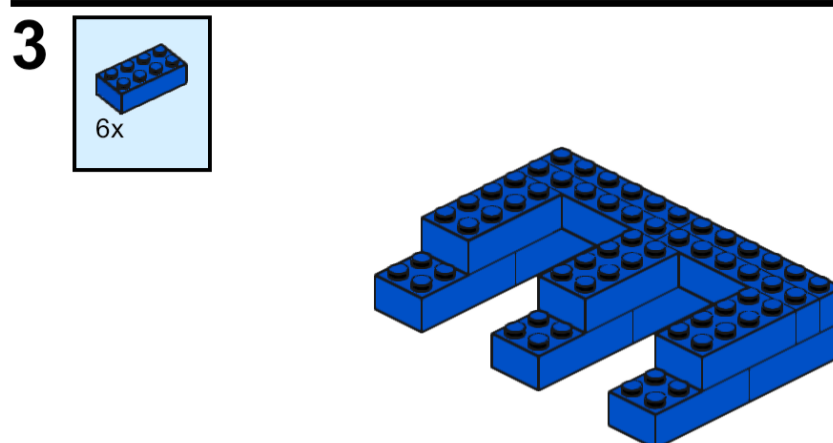
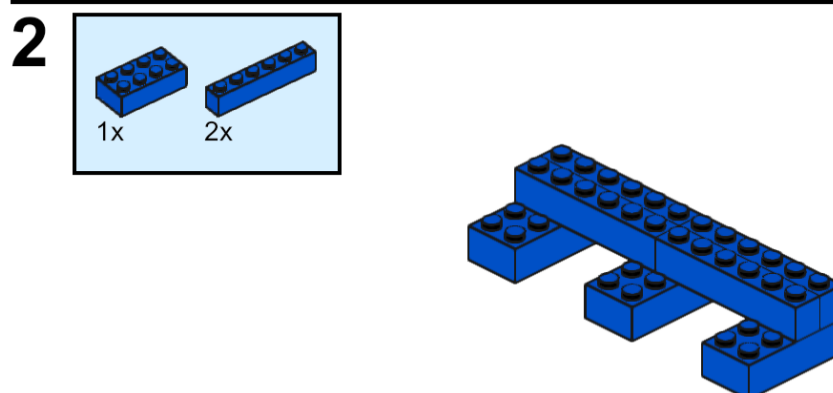
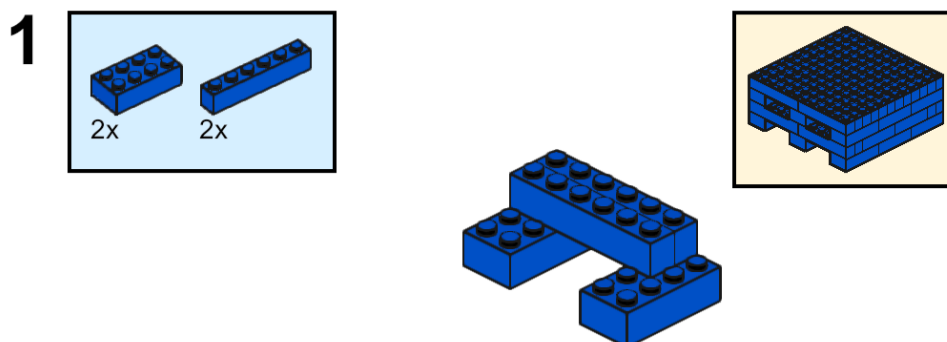


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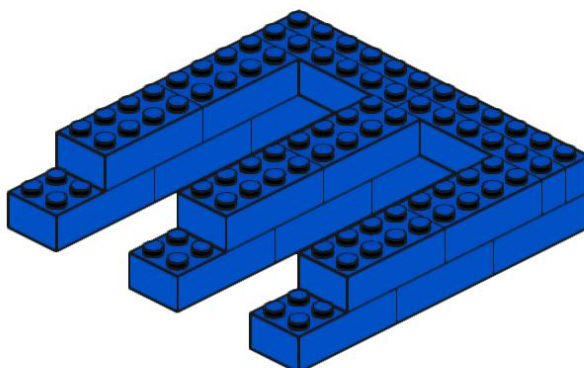
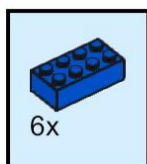
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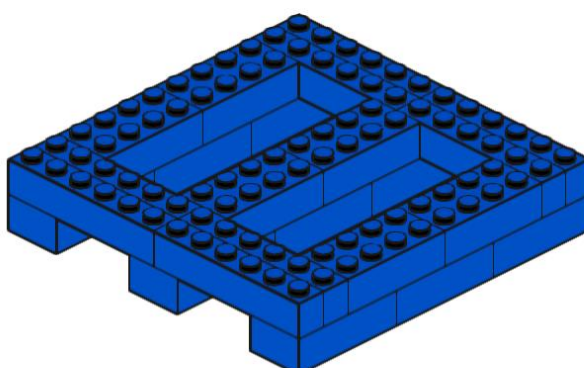
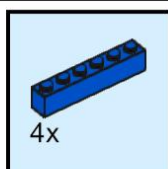
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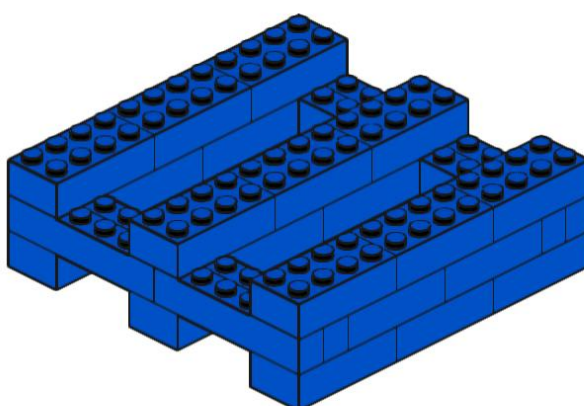
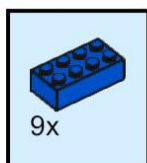
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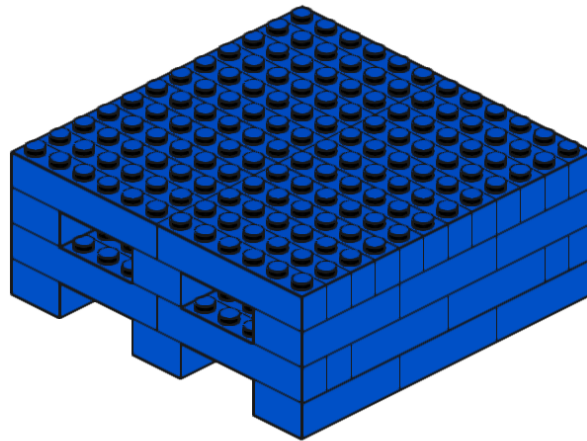
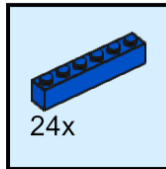
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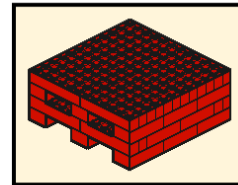
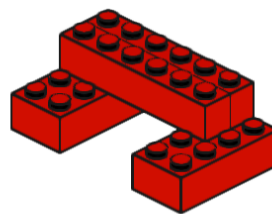
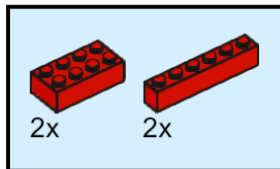
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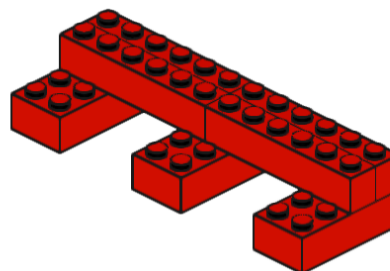
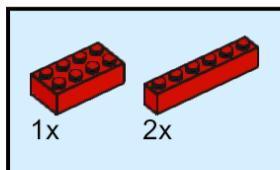
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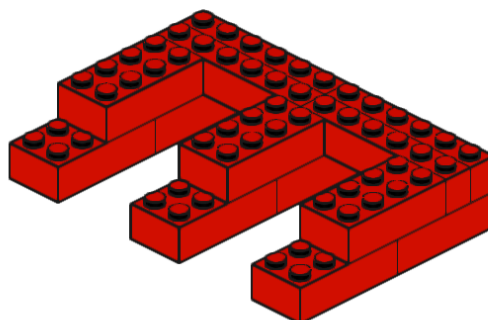
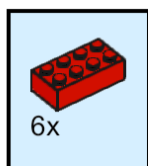
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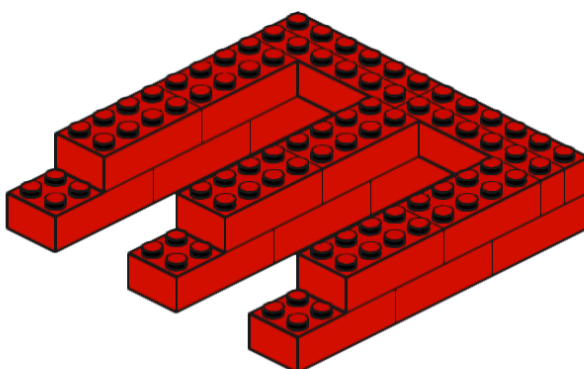
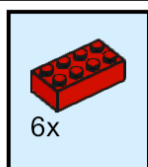
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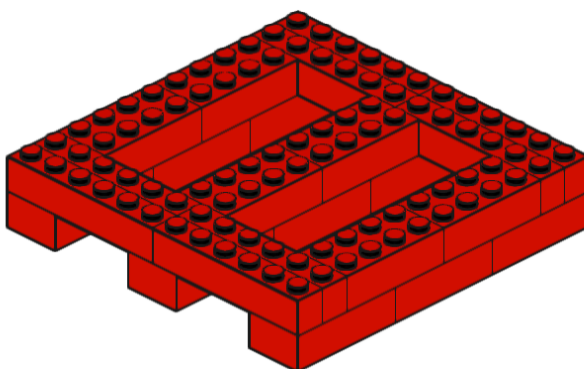
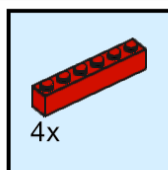
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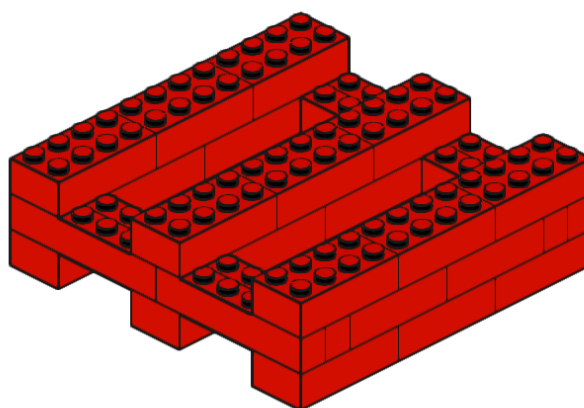
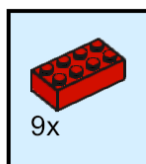
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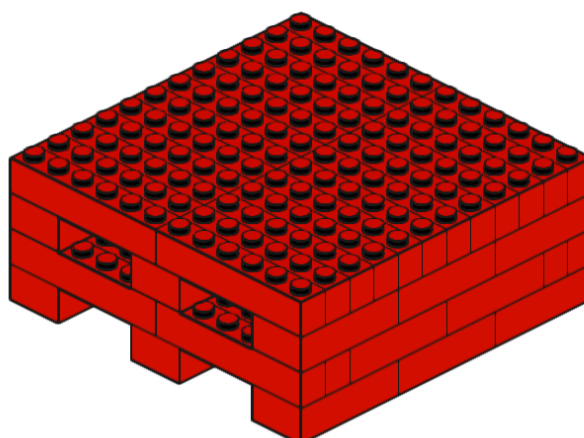
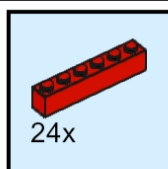
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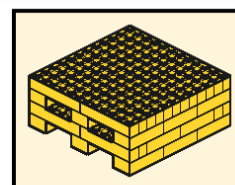
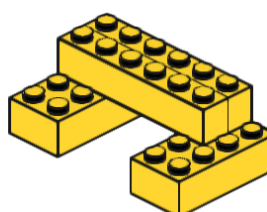
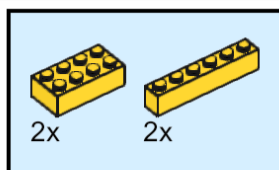
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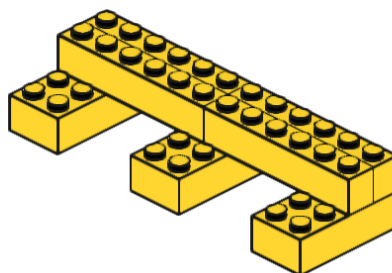
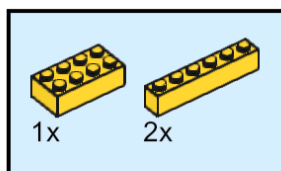
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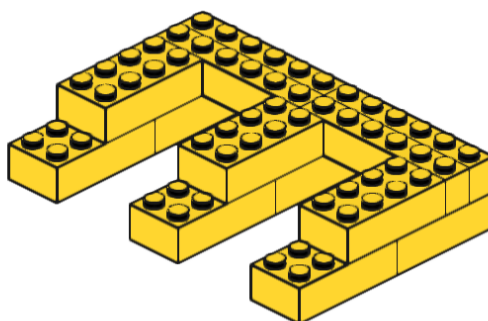
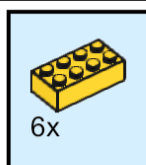
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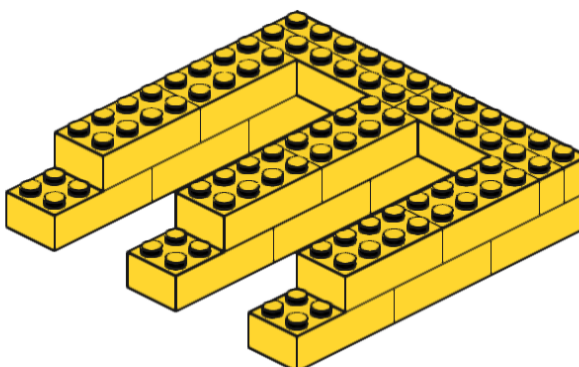
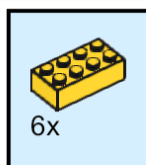
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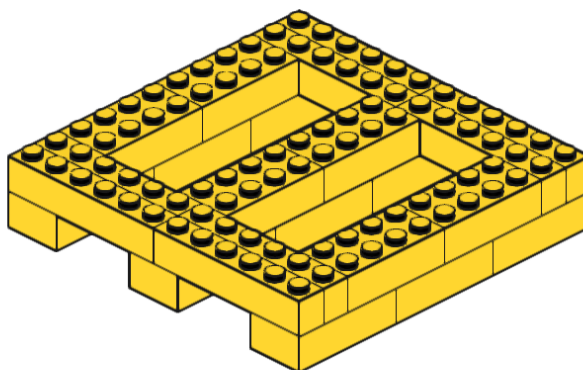
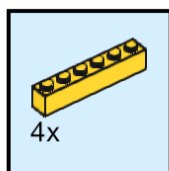
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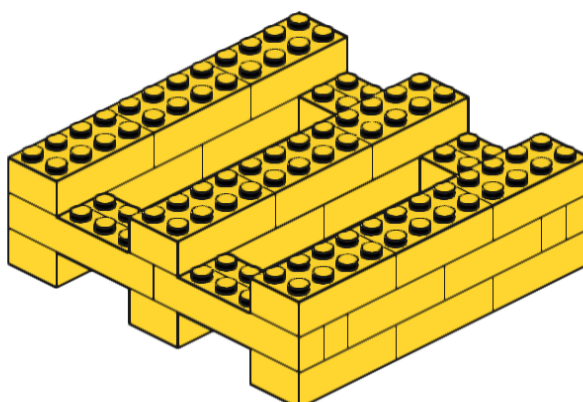
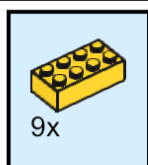
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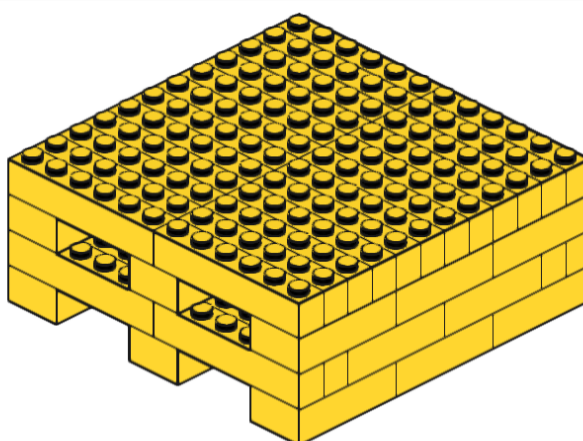
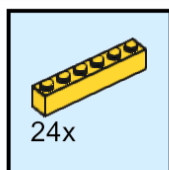
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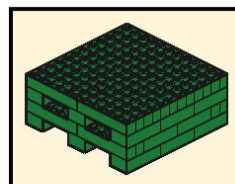
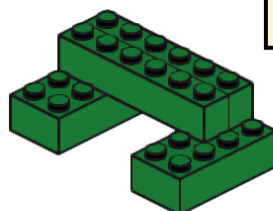
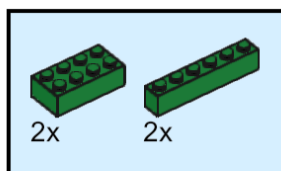


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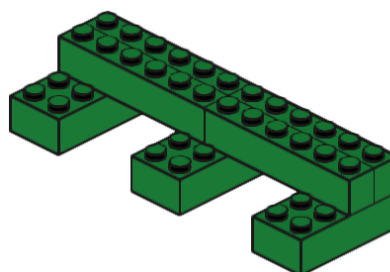
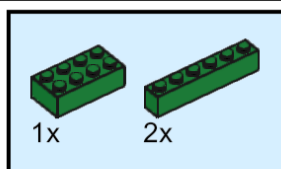




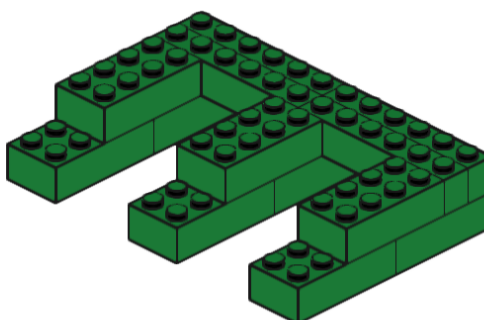
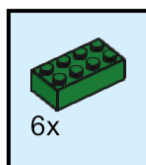
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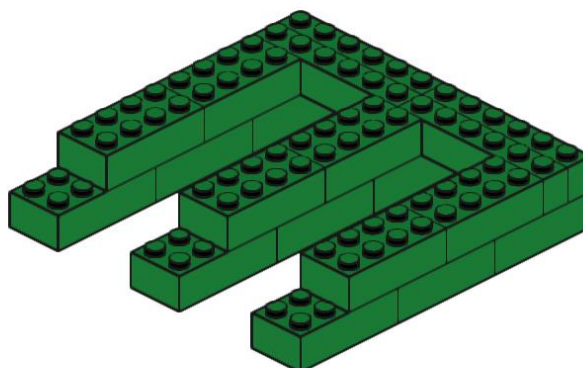
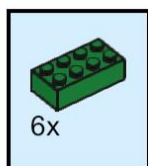
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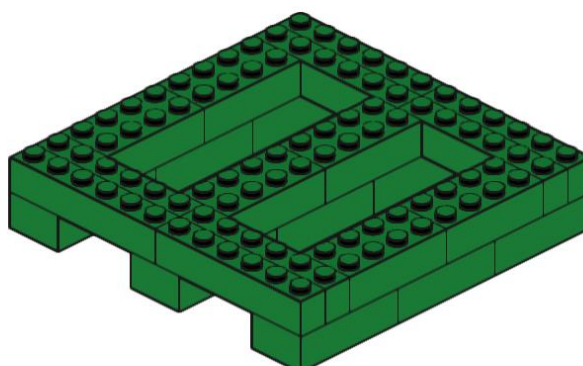
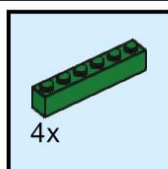
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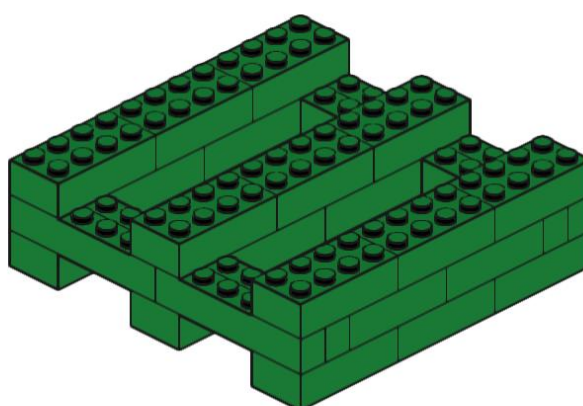
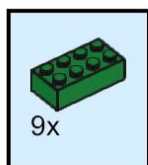
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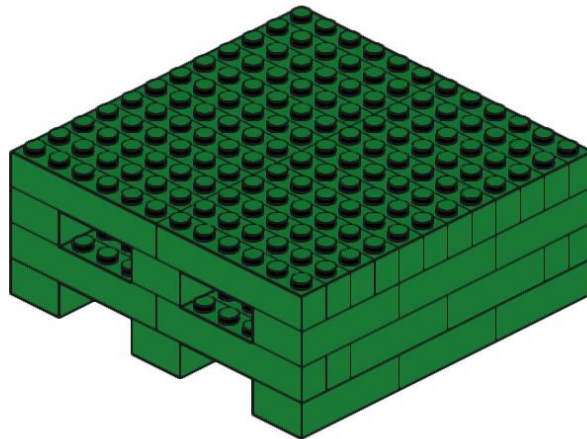
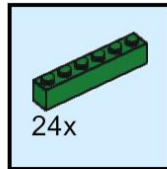
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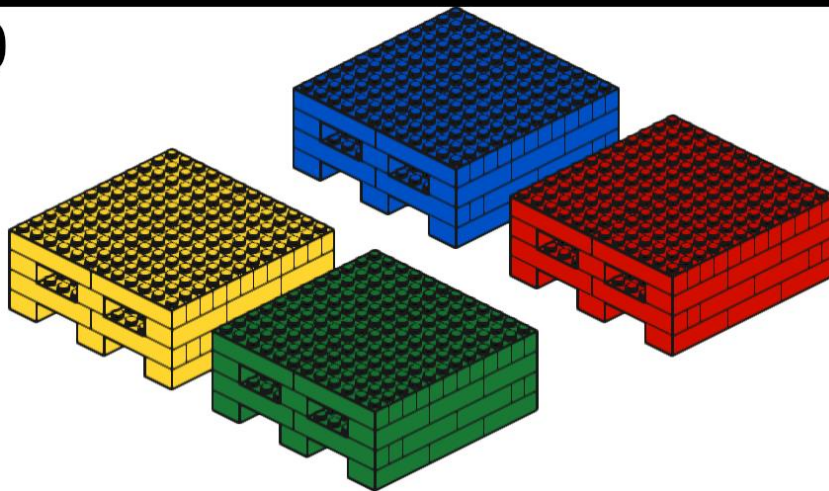
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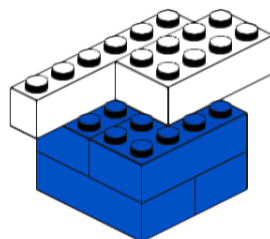
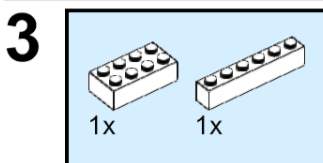
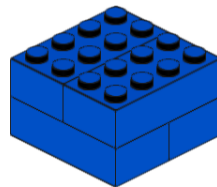
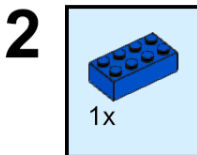
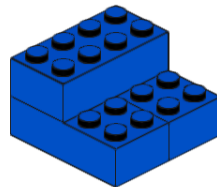
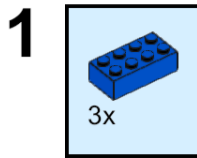
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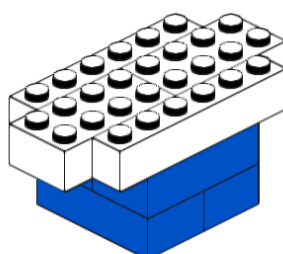
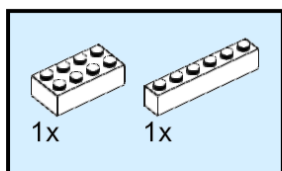
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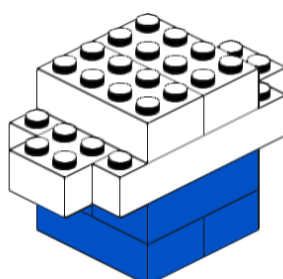
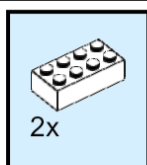
## 瓶装水 (3x)



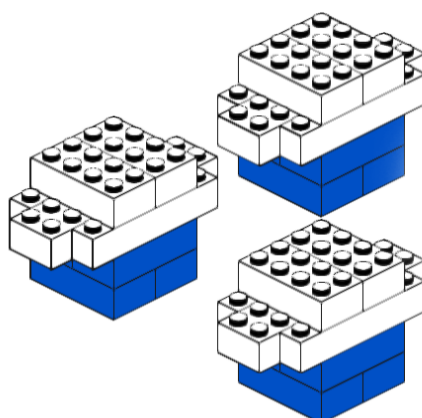
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5

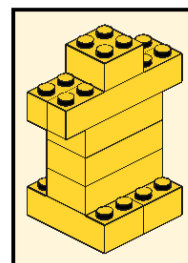
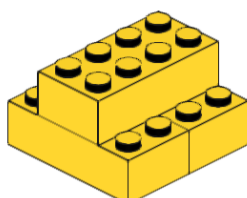
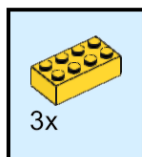


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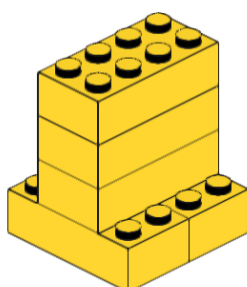
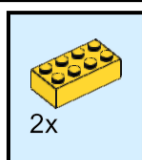


人物（每个颜色 1 个，一共 6 个）

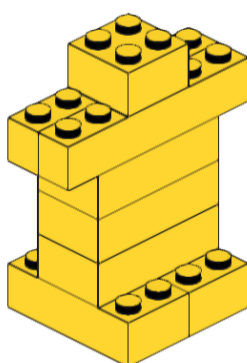
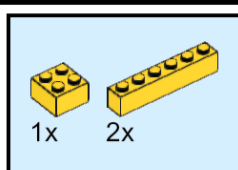
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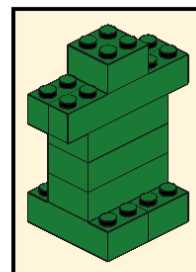
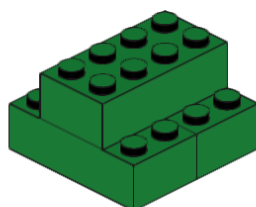
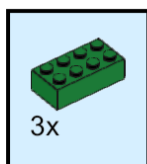
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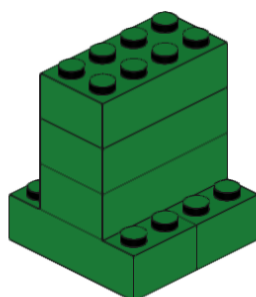
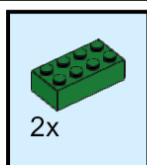
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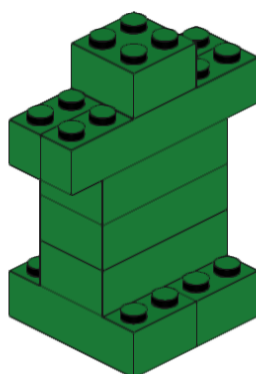
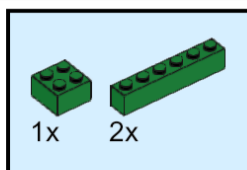
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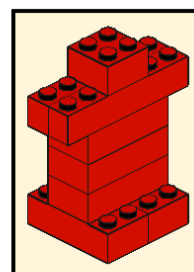
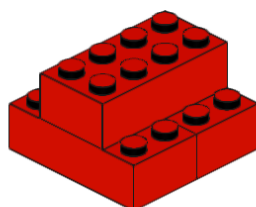
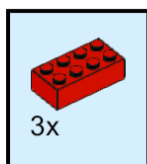
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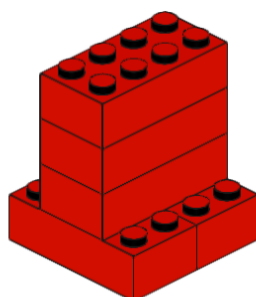
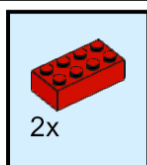
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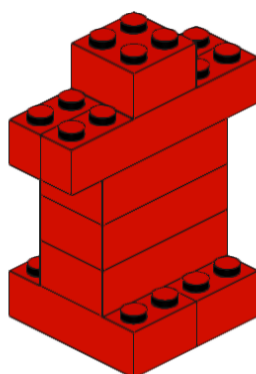
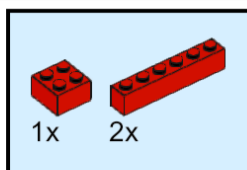
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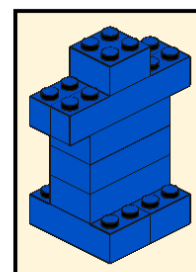
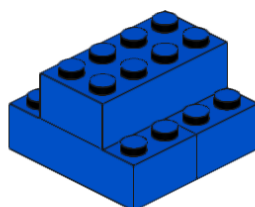
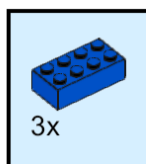


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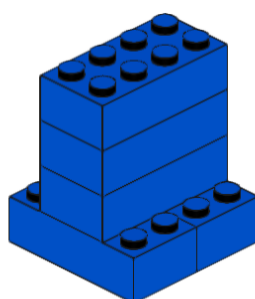
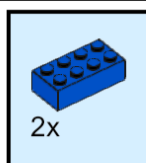




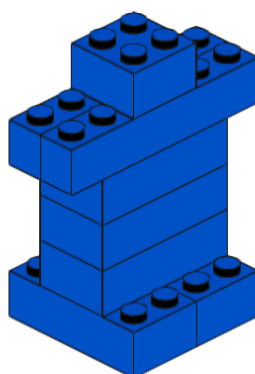
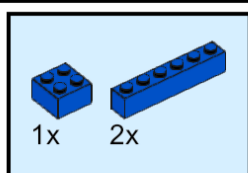
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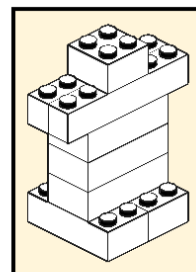
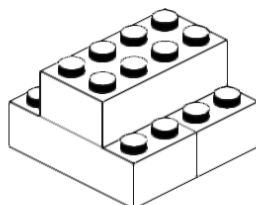
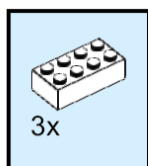
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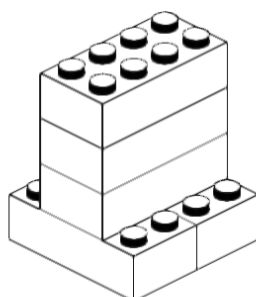
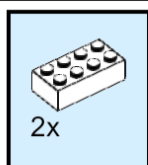
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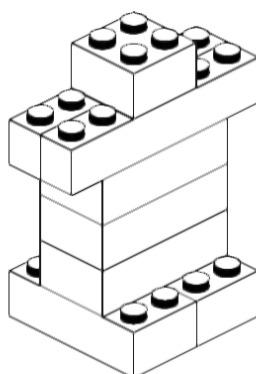
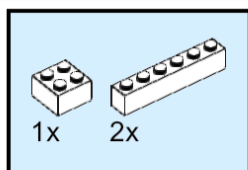
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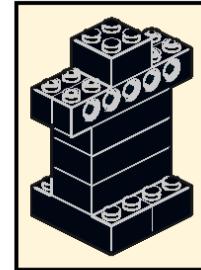
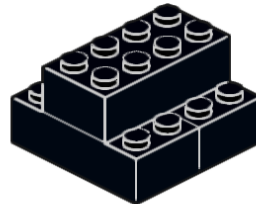
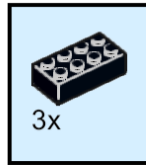
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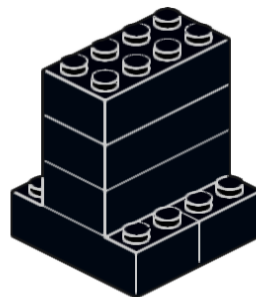
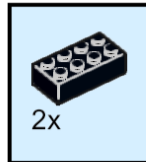
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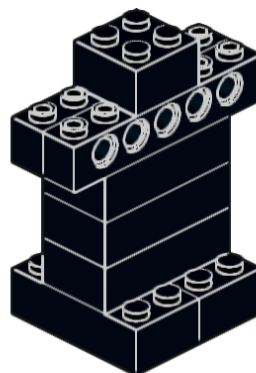
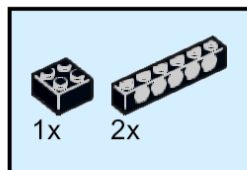
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