

# EMMAS

FlughafenKiez

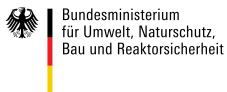
Kugelbahn

SKETCH  
BOOK

EMMA FLUGHAFENSTRASSE BERLIN  
2014/2015



**GEFÖRDERT DURCH:**



**UNTER BETEILIGUNG VON**

Bezirksamt  
Neukölln

Senatsverwaltung  
für Stadtentwicklung  
und Umwelt

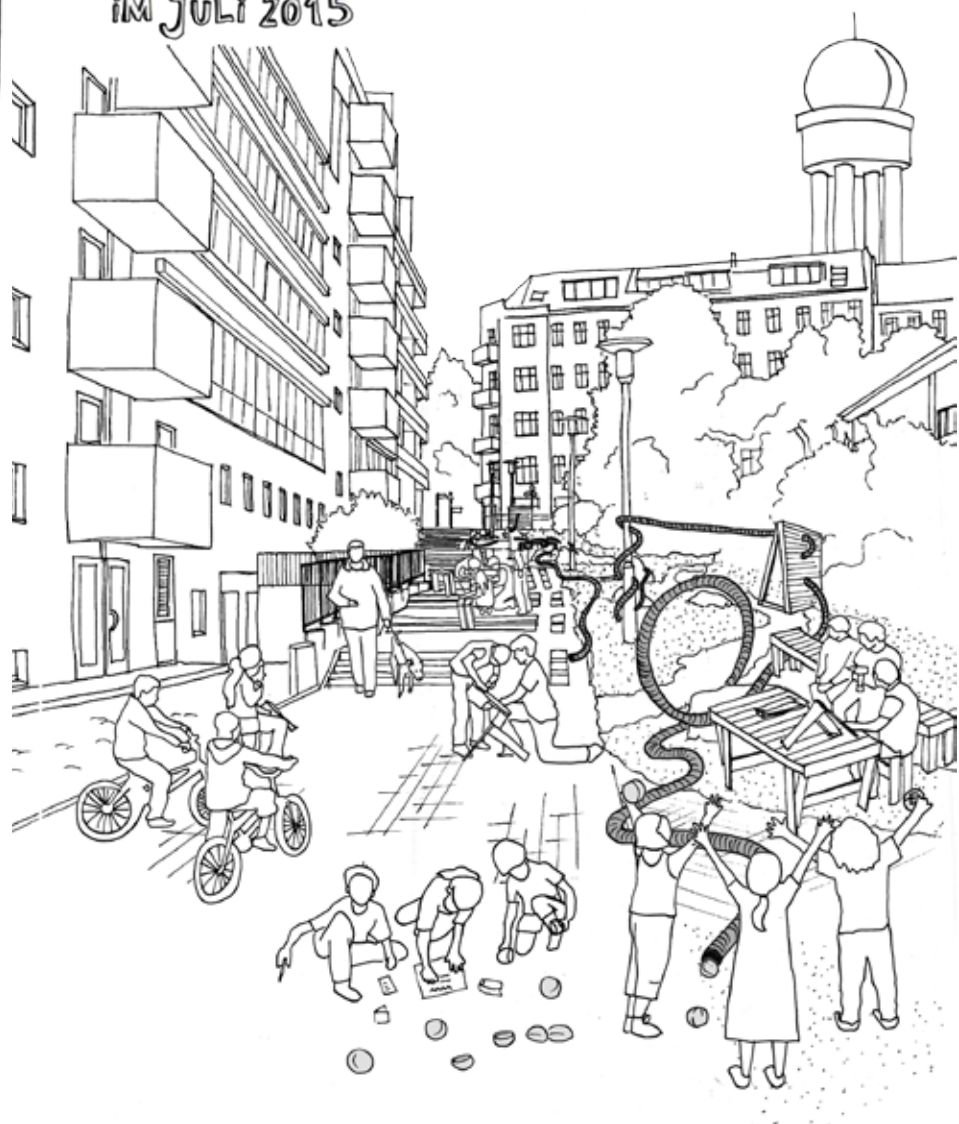


**EMMAS**  
FlughafenKiez

Kugelbahn

# SASARSTEIG

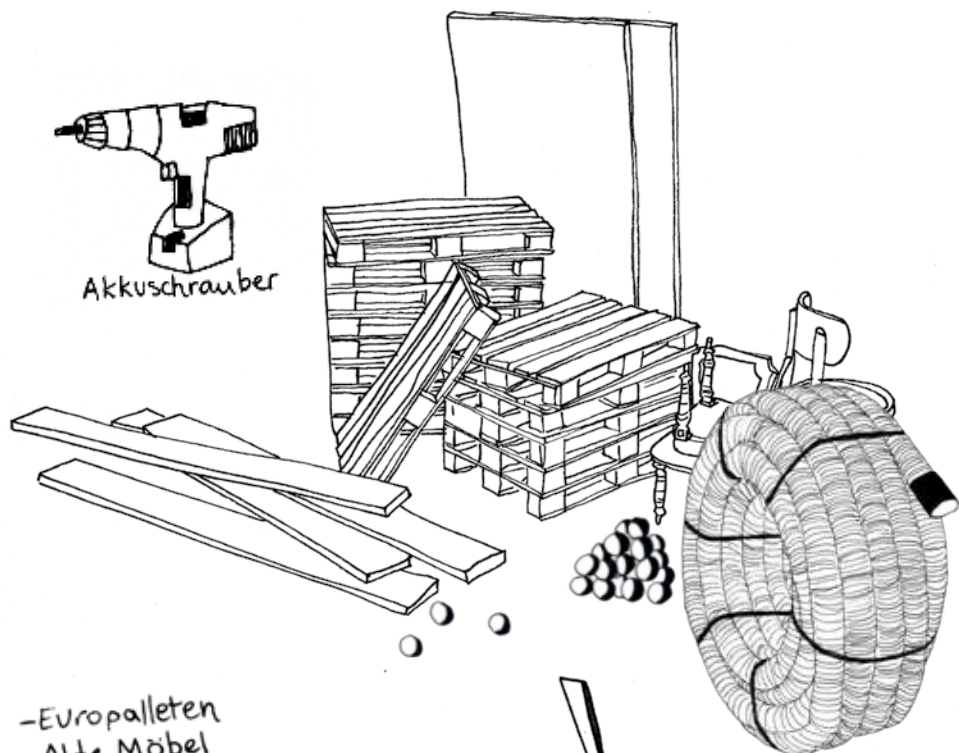
IM JULI 2015



# MATERIALS



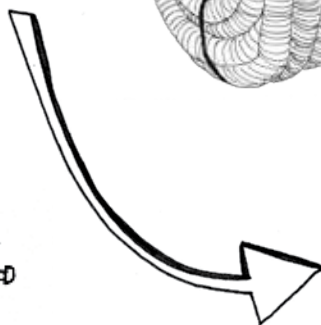
Akkuschrauber



- Europalleten
- Alte Möbel
- Bretter
- Balken
- Plastik Kugeln
- Drainagerohr



Holz Schrauben



# Tisch

der Tisch ist die  
Grundeinheit von  
EMMA



Akkuschrauber



Holz Schrauben

## TISCHPLATTE:

146,4 cm. x 2

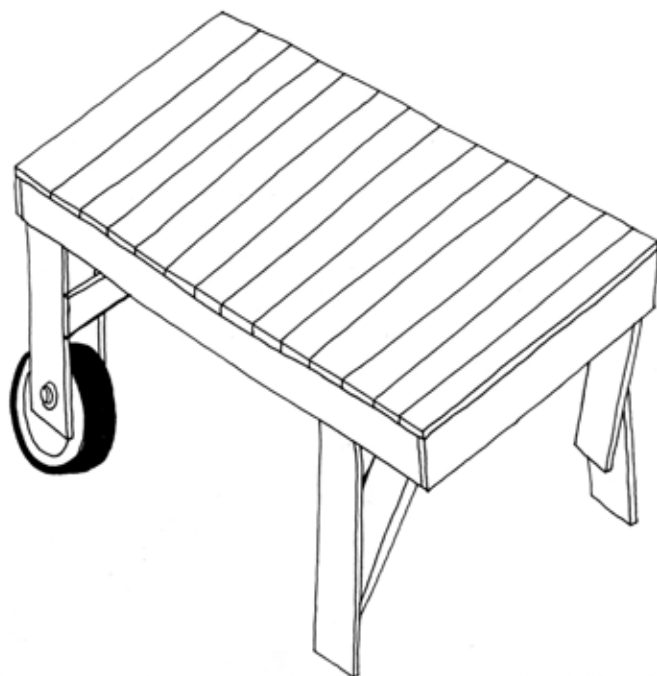
75,0 cm x 16

## BEINE:

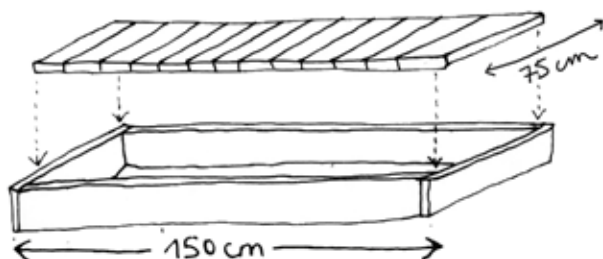
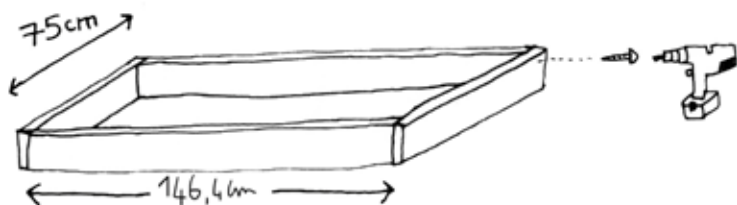
74,0 cm x 6

65,0 cm x 4

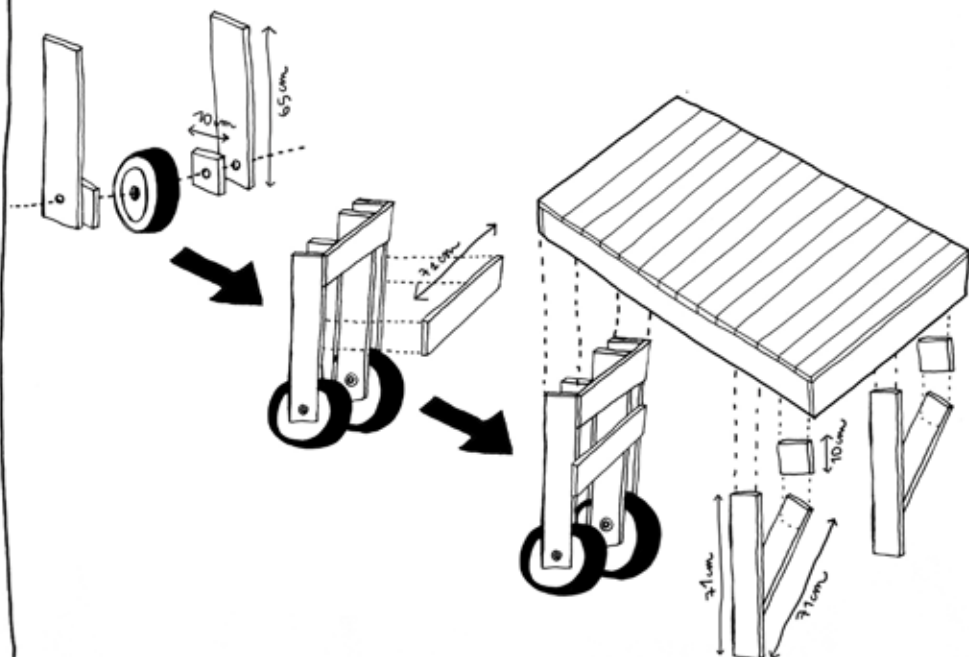
10,0 cm x 6



# TISCHPLATTE:



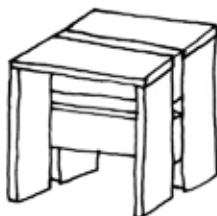
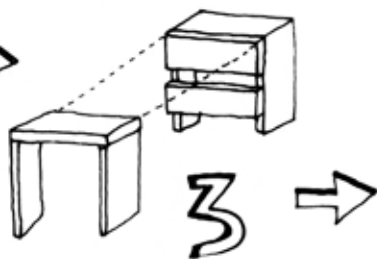
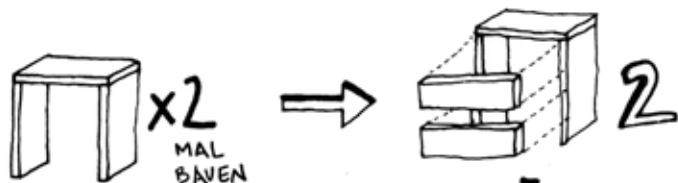
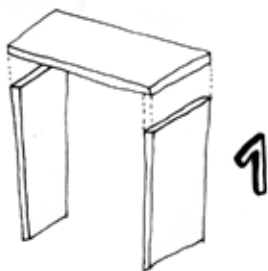
# BEINE:



# Hocker

GROSSE HOCKER: 45,0cm x 8

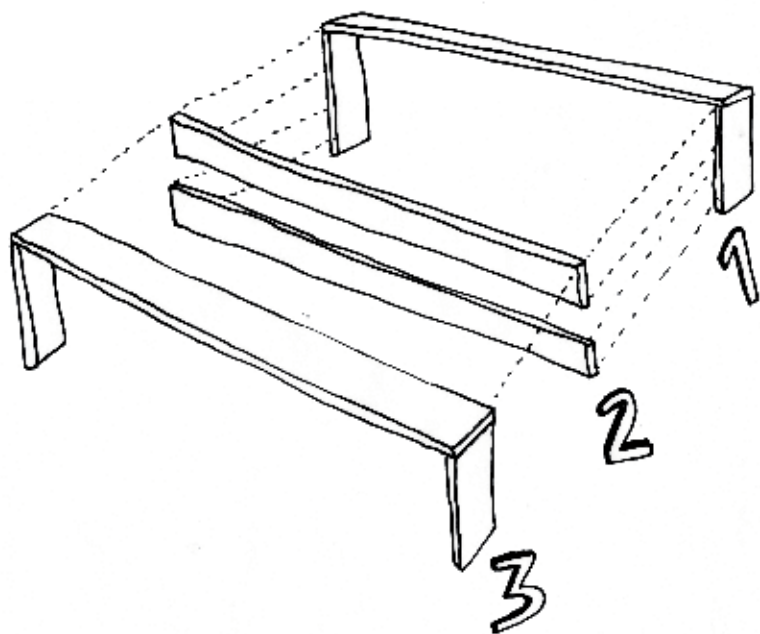
oder  
KLEINE HOCKER: 30,0cm x 8



# Bänke

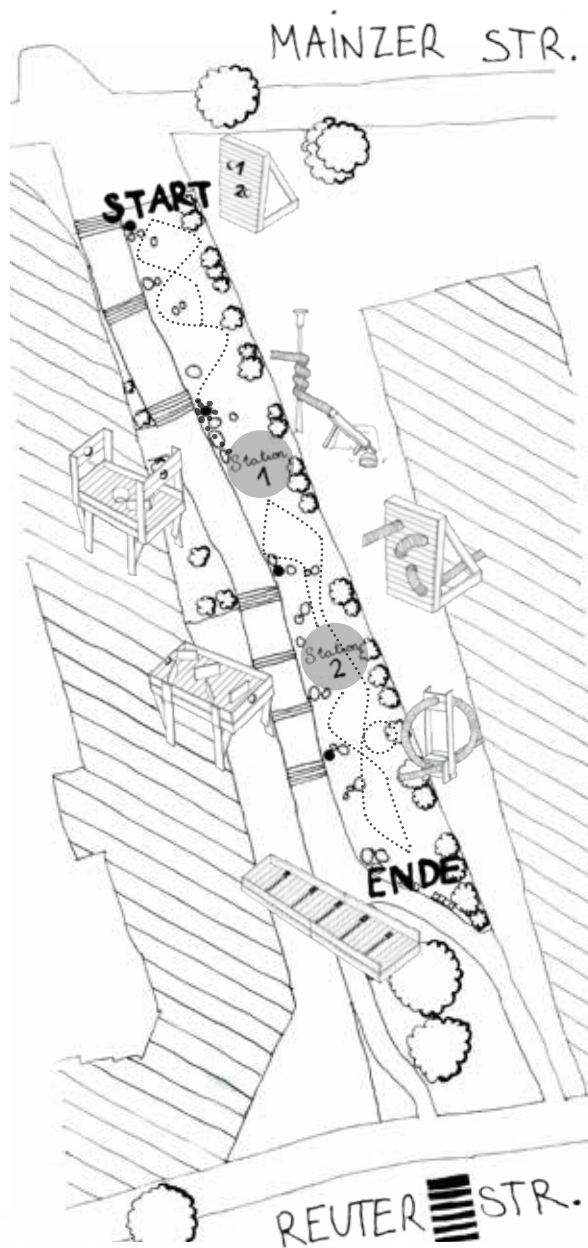
45,0 cm x 4

150,0 cm x 4



# Lageplan

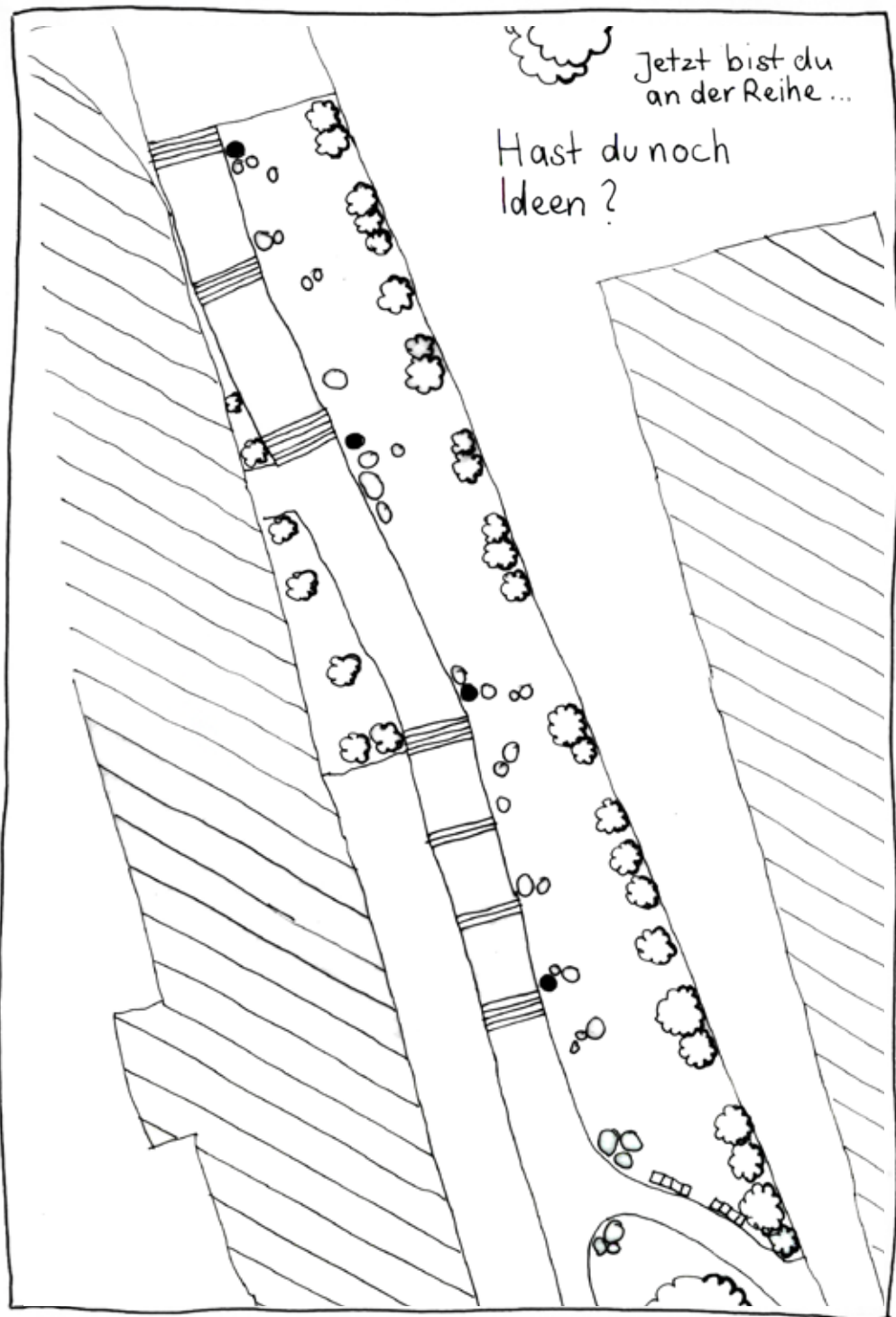
- Laternen
- ✱ Bäume
- Findlinge
- Bank





Jetzt bist du  
an der Reihe ...

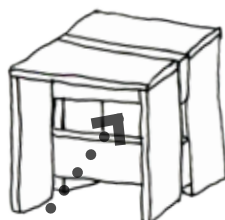
Hast du noch  
Ideen ?



# Strecke

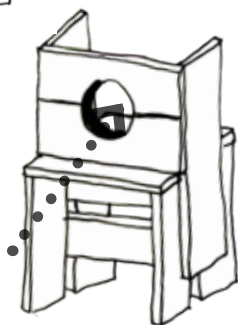
Elemente um die Kugelbahn  
zu bauen

1

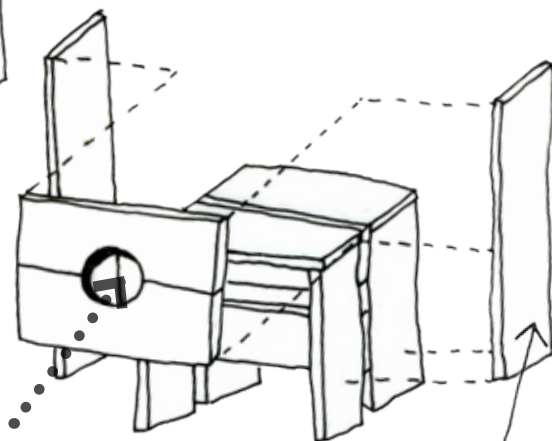


Rohr wird unter dem  
Hocker durchgesteckt

2

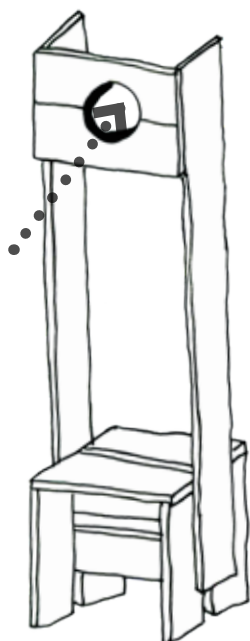


Aufsatz für den  
Hocker



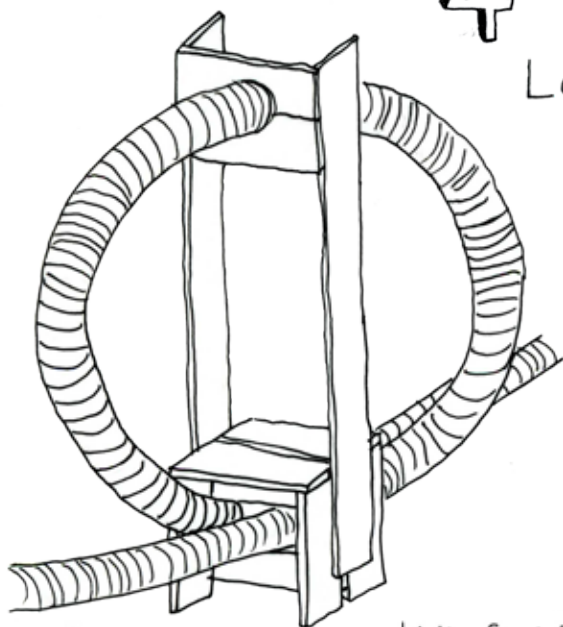
unterschiedliche Längen

3



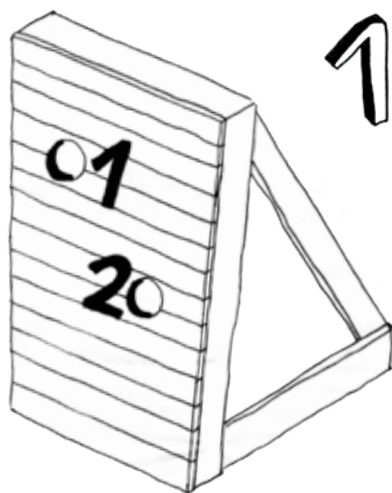
4

Loop

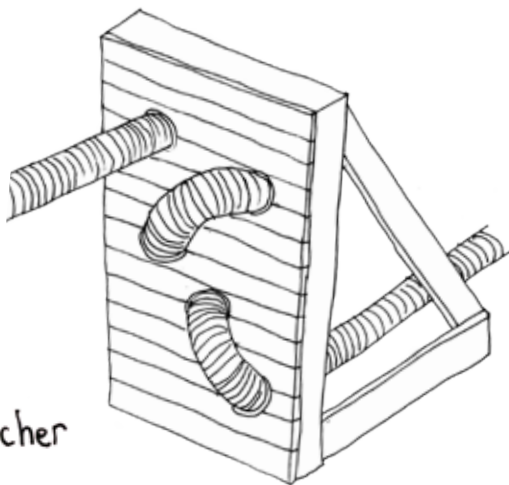


UND SO WEITER...

# Stationen



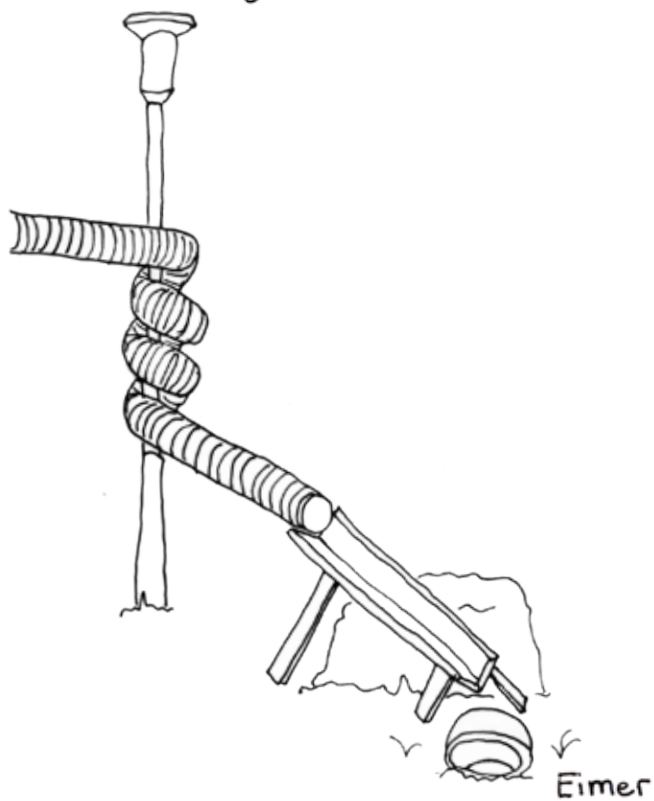
1 Starteinwurf

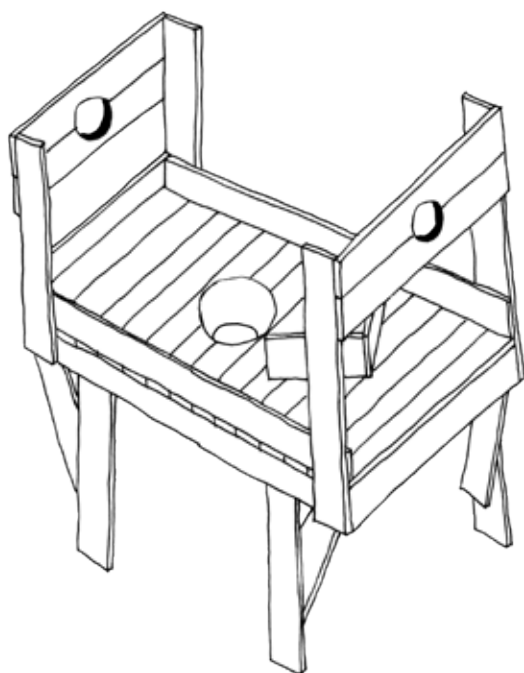


2 Wurmlöcher

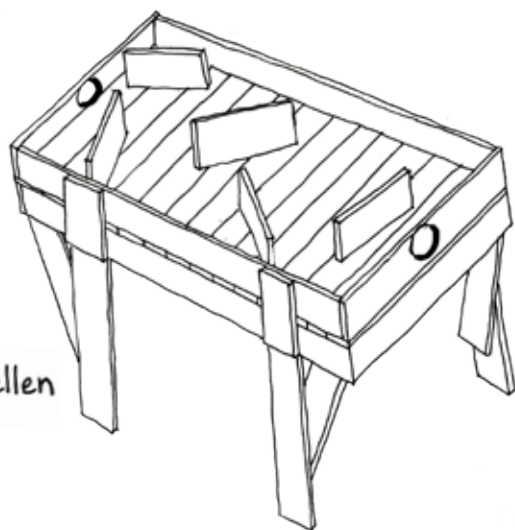
# 3

um eine Laterne schlängeln



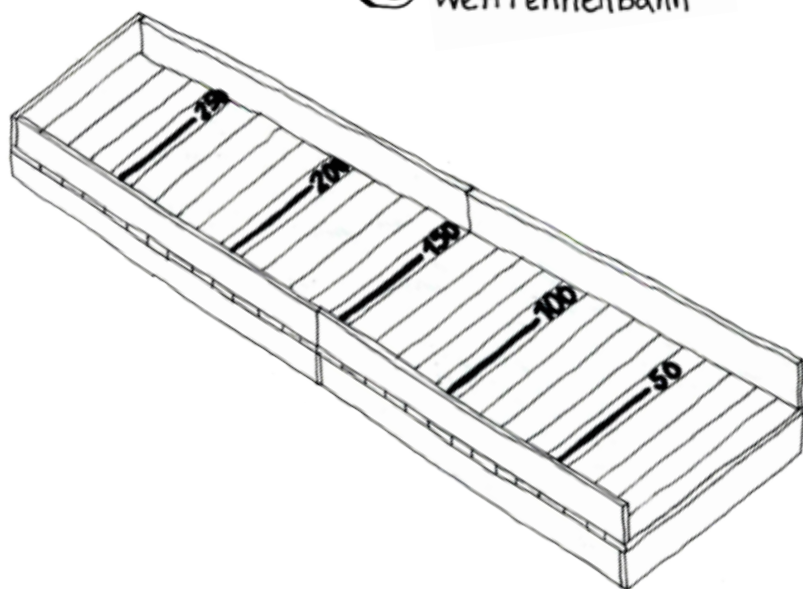


4 Treffen



5 Weichen stellen

# 6 Wettrennenbahn



UND SO WEITER...

# Geheimpost

